```
-------------------------------------------------------------------------------
-------
      name:  <unnamed>
       log:  ...\program4--table 7.log
  log type:  text
 opened on:   2 Sep 2014, 16:33:06

. ***********************************
> * Author: E McClintock            *
> * Last modified: September 2014   *
> * Last modifications: Comment-out *
> *   tabs with small cell sizes,   *
> *   add comments, for posting on  *
> *   website                       *
> * Purpose: matching or exchange?  *
> * Does: negative binomial models  *
> *   presented in Table 7          *
> ***********************************;
. *** Open Partner-Level Data, Modified for this analysis in "exchange and mathcing
- data.
> do" ***;
. * this data is organized by gender *;
. use "...\program2--forecast SES.dta" ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. des, short ;

Contains data from ...\program2--forecast SES.dta
  obs:        16,577                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:           326                          30 Dec 2013 17:48
 size:    19,991,862
Sorted by:  aid  _mj

.  sum ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
         aid |         0
     f3_rdur |     16349    38.65538    26.67304          3        170
     m3_rdur |     16261    38.31029     26.7732          3   172.1295
  m3_physatt |     16577    3.443928    .7510502          1          5
   m3_peratt |     16577    3.605839     .795611          1          5
-------------+--------------------------------------------------------
  m3_groomed |     16577     3.40146     .724106          1          5
  m3_attract |     16540    3.054172    .7669113          1          4
  m1_mom_edu |     15744    2.545795    .9911308          1          4
  m1_dad_edu |     15634    2.606115    .9800823          1          4
m1_hshld_inc |     16577    43.66673    49.38981  -154.4696        500
-------------+--------------------------------------------------------
 m3_calcage3 |     16577    23.48109    3.301404         18         43
    m3_bmi_3 |     16531    27.17672    5.647614   13.11301    53.0155
   m3_yrsedu |     16576    12.73775    1.982259          8         21
     m4_edu5 |     15671    2.763129    1.078618          1          5
      m4_inc |     15656    41557.53    50233.15  -214528.4     619800
-------------+--------------------------------------------------------
  m3_inschl3 |     16576    .2933156    .5773973          0          2
 m3_ee_cgrdp |     16574    .2204055    .4145326          0          1
   m3_trdgdr |     16441    3.160513    1.332848          1          5
      m2_gpa |     15519    2.460601    .9007052  -1.361635    6.23063
    m3_ahpvt |     16577    50.57191    29.23043          0   135.5797
```

m3_cesd9	16568	5.899299	2.989047	-1.53313	24
m3_diagdep	16574	.0657657	.2478795	0	1
m1_dad_hh7	15963	2.886832	1.965892	1	7
m1_mom_hh7	15966	4.449956	1.673882	1	7
m3_hh7	16200	3.639352	1.568136	1	7
m4_hh7	7510	3.8247	1.65418	1	7
m3_sei	16577	36.19993	22.06845	-32.93545	107.5414
m3_npboss90	12133	45.83854	24.84164	4.964933	93.5
m4_sei	15661	38.71066	23.31796	-41.23652	137.1997
m4_npboss90	6479	51.20751	25.47756	1.2	99.1
m1_dad_sei	16577	25.31592	24.86328	-17.17686	90.14209
m1_dad_np~90	9823	52.59537	20.85934	16.16835	89.11816
m3_citizen	16577	.9601858	.1955284	0	1
m3_health	16577	1.898474	.8432295	1	4
m3_intid	16577	558824.2	68233.36	200048	615542
m3_intrace	15928	1.271409	.507104	1	3
m3_intedu	15477	2.348969	.6647251	1	3
f3_partner	16577	.4591904	.4983468	0	1
f3_physatt	16577	3.629064	.8581217	1	5
f3_peratt	16577	3.79363	.8469016	1	5
f3_groomed	16577	3.580624	.7697879	1	5
f3_attract	16554	2.999819	.7270938	1	4
f3_calcage3	16577	21.85136	2.373155	18	40
f3_bmi_3	16545	26.55298	6.705264	15.31002	51.75875
f3_yrsedu	16577	12.95687	1.960551	8	20
f3_inschl3	16573	.4023412	.6205308	0	2
f3_ee_cgrdp	16576	.2720801	.4450444	0	1
f3_trdgdr	16443	3.613148	1.366761	1	5
f3_ahpvt	16577	47.75008	29.77956	0	149.0966
f3_pregnow	16577	.0676841	.2512107	0	1
f3_cesd9	16572	6.895753	3.605799	-2.549283	24
f3_diagdep	16575	.1596983	.3663371	0	1
f1_dad_hh7	15924	2.818199	1.941551	1	7
f1_mom_hh7	16010	4.336602	1.699661	1	7
f3_hh7	16031	4.198459	1.433847	1	7
f3_sei	16577	41.78224	22.83782	-38.48993	118.0273
f3_npboss90	10516	43.45261	24.85461	4.964933	99.7
f1_dad_sei	16577	24.30016	24.51172	-12.41733	85.97696
f1_dad_np~90	9394	52.9366	20.38989	16.16835	89.11816
f3_citizen	16577	.9621765	.1907749	0	1
f3_health	16577	2.076311	.8744299	1	4
f3_intid	16577	558714.5	68137.32	200048	615542
f3_intrace	15972	1.262397	.4944938	1	3
f3_intedu	15631	2.351161	.6668015	1	3
f1_mom_edu	15865	2.575165	1.031727	1	4
f1_dad_edu	15742	2.669229	.975094	1	4
f1_hshld_inc	16577	40.07654	35.43416	-111.2783	450
f4_edu5	15819	3.011821	1.037567	1	5
f4_inc	15793	28677.19	55865.75	-184251.7	999995
f2_gpa	15639	2.82597	.7998261	-.4221382	5.915472
f4_hh7	8871	4.542949	1.383228	1	7
f4_sei	15800	45.92977	22.60486	-62.08689	139.2408

f4_npboss90	8030	50.41918	26.21863	1.2	99.1
m3_ln_income	16313	8.623525	2.782577	0	19.16635
f3_ln_income	16251	7.842238	3.019725	0	18.21801
c3_sameint	16577	.8659589	.3407068	0	1
m3_emosup	16453	7.312123	2.695886	-2.973379	15.35279
f3_emosup	16469	6.862194	2.504079	-1.608267	14.68336
f3_marital	16577	1.922362	.7931247	1	3
m3_marital	16577	1.919044	.7948828	1	3
f3_married	16577	.3563371	.4789309	0	1
f3_cohab	16577	.3649635	.4814344	0	1
f3_dating	16577	.2786994	.4483728	0	1
m3_married	16577	.3596549	.4799137	0	1
m3_cohab	16577	.3616457	.4804914	0	1
m3_dating	16577	.2786994	.4483728	0	1
m3_race4	16569	1.753395	1.030216	1	4
f3_race4	16576	1.762126	1.063279	1	4
f3_miss_rdur	16577	.151294	.358346	0	1
m3_miss_rdur	16577	.2096881	.4070983	0	1
c3_miss_rdur	16577	.0457863	.2090277	0	1
_mi	16577	754	435.0465	1	1507
_mj	16577	5	3.162373	0	10
m3_white	16569	.5820508	.4932366	0	1
m3_black	16569	.1848029	.3881493	0	1
m3_hisp	16569	.1308468	.3372429	0	1
m3_other	16569	.1022995	.3030509	0	1
f3_white	16576	.5950169	.4909036	0	1
f3_black	16576	.1652992	.3714616	0	1
f3_hisp	16576	.1222249	.3275553	0	1
f3_other	16576	.117459	.3219761	0	1
m4_hsged	15671	.2286389	.4199695	0	1
m4_mths	15671	.4390913	.4962921	0	1
m4_cgrdp	15671	.192266	.3940935	0	1
f4_hsged	15819	.1846514	.3880267	0	1
f4_mths	15819	.4826474	.4997146	0	1
f4_cgrdp	15819	.2520387	.4341971	0	1
c3_white	16568	.5181676	.4996849	0	1
c3_black	16568	.1473926	.3545075	0	1
c3_hisp	16568	.0723684	.2591048	0	1
c3_other	16568	.2620715	.4397746	0	1
c3_race4	16568	2.078344	1.277804	1	4
c3_race5	16568	2.285973	1.611007	1	5
c3_married	16577	.3483743	.4764697	0	1
c3_cohab	16577	.3536828	.4781266	0	1
c3_dating	16577	.2786994	.4483728	0	1
c3_mrtlmix	16577	.0192435	.137384	0	1
c3_rdur	16508	38.2706	25.96699	-53.51838	171.0648
f3_underwe~t	16577	.0453037	.2079758	0	1
f3_normalw~t	16577	.4663087	.4988787	0	1
f3_overwei~t	16577	.2380407	.425897	0	1
f3_obese	16577	.2503469	.4332258	0	1
f3_weightcat	16577	2.693431	.8966238	1	4
m3_underwe~t	16577	.0202087	.1407179	0	1
m3_normalw~t	16577	.3784762	.4850218	0	1

m3_overwei~t	16577	.3294927	.4700432	0	1
m3_obese	16577	.2718224	.4449123	0	1
m3_weightcat	16577	2.852929	.8423457	1	4
m3_attvatt	16577	.4280027	.4948042	0	1
f3_attvatt	16577	.5467817	.4978217	0	1
f3_ovatt	16577	3.667773	.6863586	1	5
m3_ovatt	16577	3.483743	.6242586	1	5
f3_ovatt2	16577	3.604844	.7210375	1	5
m3_ovatt2	16577	3.422694	.6464552	1	5
f3_ovatt_w~p	16577	1.839386	.376659	.5	2.666667
m3_ovatt_w~p	16577	1.747371	.3414201	.5	2.666667
f3_ovatt_w~2	16577	2.077472	.6040252	.25	3.5
m3_ovatt_w~2	16577	1.939449	.5422909	0	3.5
m3_sesidx	16576	22.72545	11.44569	-7.978484	51.025
f3_sesidx	16577	23.45817	10.9565	-8.163308	54.175
mf3_bmi	16504	.6295107	7.509874	-28.20793	28.89448
fm3_bmi	16504	-.6295107	7.509874	-28.89448	28.20793
mf3_sesidx	16576	-.733128	13.52819	-47.12655	56.93528
fm3_sesidx	16576	.733128	13.52819	-56.93528	47.12655
mf3_physatt	16577	-.185136	.9908126	-4	4
fm3_physatt	16577	.185136	.9908126	-4	4
mf3_groomed	16577	-.1791639	.8225776	-4	4
fm3_groomed	16577	.1791639	.8225776	-4	4
mf3_yrsedu	16576	-.2191723	1.856719	-8	9
fm3_yrsedu	16576	.2191723	1.856719	-9	8
mf3_ln_inc~e	16141	.784536	3.137951	-11.70197	12.84202
fm3_ln_inc~e	16141	-.784536	3.137951	-12.84202	11.70197
mf3_ahpvt	16502	2.854046	31.01009	-97	101.8168
fm3_ahpvt	16502	-2.854046	31.01009	-101.8168	97
mf3_peratt	16577	-.1877903	.9686323	-4	4
fm3_peratt	16577	.1877903	.9686323	-4	4
mf3_emosup	16364	.4506781	3.549456	-13.47904	12.60827
fm3_emosup	16364	-.4506781	3.549456	-12.60827	13.47904
mf3_calcage3	16577	1.629728	3.296695	-16	20
fm3_calcage3	16577	-1.629728	3.296695	-20	16
mf3_ee_cgrdp	16573	-.0516503	.3972956	-1	1
fm3_ee_cgrdp	16573	.0516503	.3972956	-1	1
mf3_ovatt	16577	-.1840301	.7282492	-4	2.666667
fm3_ovatt	16577	.1840301	.7282492	-2.666667	4
mf3_ovatt_~p	16577	-.092015	.3641246	-2	1.333333
fm3_ovatt_~p	16577	.092015	.3641246	-1.333333	2
mf3_sei	15820	-6.167851	27.42465	-103.0273	120.6602
fm3_sei	15820	6.167851	27.42465	-120.6602	103.0273
mf3_npboss90	8184	1.53053	29.63674	-76.73506	78.20376
fm3_npboss90	8184	-1.53053	29.63674	-78.20376	76.73506
mf3_income	16141	21431.55	2047268	-7.45e+07	2.06e+08
fm3_income	16141	-21431.55	2047268	-2.06e+08	7.45e+07
f3_edu5	16577	2.49436	.9986031	1	5
m3_edu5	16576	2.382843	1.004499	1	5
f3_physatt3	16577	3.489051	.6044529	2	4
m3_physatt3	16577	3.371599	.5885075	2	4
mXf3_obese	16577	.1106352	.3136893	0	1

mXf3_overw~t	16577	.0859022	.280228	0	1
mXf3_under~t	16577	.0027146	.0520327	0	1
mXf3_attvatt	16577	.2913072	.4543785	0	1
f3_phys1	16577	.0179164	.1326516	0	1
f3_phys2	16577	.0398142	.1955284	0	1
f3_phys3	16577	.3954877	.4889699	0	1
f3_phys4	16577	.388852	.4875043	0	1
f3_phys5	16577	.1579297	.364686	0	1
m3_phys1	16577	.0099536	.0992727	0	1
m3_phys2	16577	.0464499	.2104637	0	1
m3_phys3	16577	.5155939	.4997718	0	1
m3_phys4	16577	.34572	.4756168	0	1
m3_phys5	16577	.0822827	.2748032	0	1
f3_per1	16577	.0165893	.1277303	0	1
f3_per2	16577	.013935	.1172246	0	1
f3_per3	16577	.3417386	.4743067	0	1
f3_per4	16577	.4147313	.4926905	0	1
f3_per5	16577	.213006	.4094442	0	1
m3_per1	16577	.0099536	.0992727	0	1
m3_per2	16577	.0331785	.1791079	0	1
m3_per3	16577	.4319841	.4953672	0	1
m3_per4	16577	.3908427	.4879539	0	1
m3_per5	16577	.1340411	.3407068	0	1
f3_grm1	16577	.0059721	.0770508	0	1
f3_grm2	16577	.0351692	.1842129	0	1
f3_grm3	16577	.4525547	.4977589	0	1
f3_grm4	16577	.3848706	.4865794	0	1
f3_grm5	16577	.1214333	.32664	0	1
m3_grm1	16577	.0072993	.085126	0	1
m3_grm2	16577	.047777	.2133006	0	1
m3_grm3	16577	.5534174	.4971534	0	1
m3_grm4	16577	.3191772	.4661719	0	1
m3_grm5	16577	.0723291	.2590399	0	1
f3_per45	16577	.6277372	.4834225	0	1
m3_per45	16577	.5248839	.4993955	0	1
f3_grm45	16577	.5063039	.4999753	0	1
m3_grm45	16577	.3915063	.4881019	0	1
f3_phys12	16577	.0577306	.2332403	0	1
f3_phys123	16577	.4532183	.4978217	0	1
m3_phys12	16577	.0564035	.2307061	0	1
m3_phys123	16577	.5719973	.4948042	0	1
f3_phys45	16577	.5467817	.4978217	0	1
m3_phys45	16577	.4280027	.4948042	0	1
f3_phys345	16577	.9422694	.2332403	0	1
m3_phys345	16577	.9435965	.2307061	0	1
f3_per12	16577	.0305242	.1720299	0	1
m3_per12	16577	.0431321	.2031604	0	1
f3_grm12	16577	.0411413	.198623	0	1
m3_grm12	16577	.0550763	.228136	0	1
m3_rdur_sh~t	16577	.3258129	.4686919	0	1
m3_rdur_med	16577	.3216505	.4671238	0	1
m3_rdur_long	16577	.352597	.477793	0	1
f3_rdur_sh~t	16577	.3373952	.4728352	0	1

f3_rdur_med	16577	.318031	.4657256	0	1
f3_rdur_long	16577	.3538638	.478182	0	1
c3_rdur_sh~t	16577	.3367919	.4726273	0	1
c3_rdur_med	16577	.3205043	.4666845	0	1
c3_rdur_long	16577	.3427641	.4746477	0	1
hh7_diff	15828	-.5599254	1.931978	-6	6
hh7_diff4	15433	-.4524396	2.047653	-6	6
hh7_m3d_diff	15723	.8324111	2.380824	-6	6
npb~m3d_diff	6996	-6.719835	29.59851	-84.15323	75.24076
hh7_f3d_diff	15662	1.328342	2.369468	-6	6
npb~f3d_diff	6490	-8.990165	31.43215	-84.15323	75.63165
hh7_m3m_diff	15773	-.6928929	2.104823	-6	5.5
hh7_f3m_diff	15657	-.2499202	2.106129	-6	6
hh7_dad_diff	15614	-.0675676	2.493663	-6	6
npboss90_d~f	5984	.2043767	27.27621	-72.75893	72.94981
hh7_mom_diff	15630	-.1109085	2.227654	-6	6
hh7_m4d_diff	7287	.9755043	2.407865	-6	6
npb~m4d_diff	4026	-.1568106	30.1261	-80.50416	70.64076
npb~f4d_diff	4983	-.8538691	33.13329	-79.88879	82.74076
hh7_f4d_diff	8598	1.64201	2.305379	-6	6
hh7_m4m_diff	7263	-.4914636	2.239267	-6	6
hh7_f4m_diff	8537	.1082933	2.114105	-6	6
mf3_hh7_mo~f	15364	-.4916363	3.2714	-10.5	10.5
mf3_npb_mo~f	3146	.7253917	39.43328	-126.3069	104.0124
m3_bmi_spl~1	16531	26.83045	6.681455	0	53.0155
m3_bmi_spl~2	16531	19.28907	14.98493	0	53.0155
m3_bmi_spl~3	16531	10.01654	15.71415	0	53.0155
f3_bmi_spl~1	16545	25.75341	8.525008	0	51.75875
f3_bmi_spl~2	16545	16.25355	16.24847	0	51.75875
f3_bmi_spl~3	16545	9.558089	16.04256	0	51.75875
m3_avgp	16577	.9435965	.2307061	0	1
f3_avgp	16577	.9422694	.2332403	0	1
m3_vatt	16577	.0822827	.2748032	0	1
f3_vatt	16577	.1579297	.364686	0	1
m3_unatt	16577	.0564035	.2307061	0	1
f3_unatt	16577	.0577306	.2332403	0	1
m3_vunatt	16577	.0099536	.0992727	0	1
f3_vunatt	16577	.0179164	.1326516	0	1
m3_unattp	16577	.9900464	.0992727	0	1
f3_unattp	16577	.9820836	.1326516	0	1
f3_eduXmrd	16577	4.567352	6.248103	0	19
f3_eduXchb	16577	4.636364	6.224737	0	20
m3_eduXmrd	16576	4.518521	6.143455	0	20
m3_eduXchb	16576	4.513212	6.102934	0	21
fm3_eduXmrd	16576	.0915782	1.135071	-6	6
fm3_eduXchb	16576	.0809604	1.099056	-9	8
mf3_eduXmrd	16576	-.0915782	1.135071	-6	6
mf3_eduXchb	16576	-.0809604	1.099056	-8	9
c3_calcage3	16577	22.66622	2.355529	18	33
f1_wc_hh7	16577	.2802678	.4491436	0	1
f1_wc_sei	16577	.7645533	.4242905	0	1
f1_wc_npb~90	16577	.3556735	.4787313	0	1

```
   m1_wc_hh7 |     16577    .2929963    .4551505          0          1
   m1_wc_sei |     16577    .7521264     .431791          0          1
m1_wc_npb~90 |     16577    .3696085    .4827133          0          1
-------------+---------------------------------------------------------
 m1_mom_msed |     16577    .0502503    .2184677          0          1
 m1_mom_lths |     16577    .1549134    .3618331          0          1
   m1_mom_hs |     16577    .3153767    .4646798          0          1
 m1_mom_mths |     16577    .2856367    .4517308          0          1
   m1_mom_cg |     16577    .1938228    .3953036          0          1
-------------+---------------------------------------------------------
 m1_dad_msed |     16577     .056886    .2316317          0          1
 m1_dad_lths |     16577    .1018882    .3025103          0          1
   m1_dad_hs |     16577    .4061652    .4911309          0          1
 m1_dad_mths |     16577    .1965977    .3974375          0          1
   m1_dad_cg |     16577    .2384629    .4261564          0          1
-------------+---------------------------------------------------------
 f1_mom_msed |     16577    .0429511     .202753          0          1
 f1_mom_lths |     16577    .1582313    .3649687          0          1
   f1_mom_hs |     16577    .3243048    .4681286          0          1
 f1_mom_mths |     16577     .240333    .4272986          0          1
   f1_mom_cg |     16577    .2341799    .4234979          0          1
-------------+---------------------------------------------------------
 f1_dad_msed |     16577     .050371    .2187159          0          1
 f1_dad_lths |     16577    .0793268    .2702563          0          1
   f1_dad_hs |     16577    .4224528    .4939647          0          1
 f1_dad_mths |     16577     .180853    .3849079          0          1
   f1_dad_cg |     16577    .2669964    .4424038          0          1
-------------+---------------------------------------------------------
m1_miss_hh~c |     16577   -2.933218    11.51136  -154.4696          1
m1_miss_dsei |     16577   -.0233805    .4281177  -17.17686          1
m3_miss_ah~t |     16577    .0034988    .0590491          0          1
 m3_miss_sei |     16577   -.0549572    .9888119  -32.93545          1
f1_miss_hh~c |     16577    -1.13265    5.984696  -111.2783          1
-------------+---------------------------------------------------------
f1_miss_dsei |     16577   -.0380714    .5117876  -12.41733          1
f3_miss_ah~t |     16577    .0030509    .0549035          0          1
 f3_miss_sei |     16577   -.1003531     1.43417  -38.48993          1
   m4_ln_inc |     13599    10.39504    1.593826          0   13.33715
  m4_ln_incp |     16566     10.5689    1.510987   8.064327   28.69805
-------------+---------------------------------------------------------
    m4_inc10 |     15656    1.165687    1.007484          1         10
   m4_inc10p |     16566     5.81456    3.534439          1         10
     m4_seip |     16566    42.53598    17.20638  -217.8024   174.7746
    m4_edu5p |     16566    2.933357    .9388945          1          5
   f4_ln_inc |     13374    9.437894    2.944852          0   13.81551
-------------+---------------------------------------------------------
  f4_pct_inc |     16577       24000           0      24000      24000
  f4_ln_incp |     16575    8.164095    4.219331  -62.36927   49.40265
    f4_inc10 |     15793    1.202431    1.112635          1         10
   f4_inc10p |     16575    5.125792    3.638507          1         10
     f4_seip |     16575     41.4766    23.79724  -351.3786   76.53989
-------------+---------------------------------------------------------
    f4_edu5p |     16575    3.190649    .8822133          1          5

. ****************************************** LOG-LINEAR MODELS
****************************
> *****;
. recode m3_physatt 1=2, gen(m3_physatt4) ;
(165 differences between m3_physatt and m3_physatt4)

.  recode f3_physatt 1=2, gen(f3_physatt4) ;
(297 differences between f3_physatt and f3_physatt4)
```

```
.  gen all = 1 ;

. save "...\temp_mim.dta", replace ;
file ...\temp_mim.dta saved

. keep if _mj == 0 ;
(15070 observations deleted)

. save "...\temp.dta", replace ;
file ...\temp.dta saved

. **************** Use college grad status ****************;
. *** Not MIM ***;
. use "...\temp.dta", clear ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. display "tab before contract" ;
tab before contract

. tab1 f3_physatt4 m3_physatt4 f3_ee_cgrdp m3_ee_cgrdp ;

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,096       72.78       72.78
          1 |        410       27.22      100.00
------------+-----------------------------------
      Total |      1,506      100.00

-> tabulation of m3_ee_cgrdp
```

```
Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,172       77.93       77.93
          1 |        332       22.07      100.00
------------+-----------------------------------
      Total |      1,504      100.00

. contract m3_physatt4 f3_physatt4 f3_ee_cgrdp m3_ee_cgrdp, freq(count) zero ;

. display "edu_endog" ;
edu_endog

. gen edu_endog = 0 ;

. replace edu_endog = 1 if m3_ee_cgrdp == f3_ee_cgrdp ;
(48 real changes made)

.  table m3_ee_cgrdp f3_ee_cgrdp, contents(mean edu_endog) ;

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------

. display "physatt_endog" ;
physatt_endog

. gen physatt_endog = 0 ;

. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
(36 real changes made)

.  table m3_physatt4 f3_physatt4, contents(mean physatt_endog) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

. display "exchange" ;
exchange

. gen exchange = 0 ;

. replace exchange = 1 if ((f3_ee_cgrdp > m3_ee_cgrdp) & (f3_physatt4 <
m3_physatt4))
>                       | ((f3_ee_cgrdp < m3_ee_cgrdp) & (f3_physatt4 >
```

```
m3_physatt4)) ;
(36 real changes made)

. table m3_ee_cgrdp f3_ee_cgrdp, contents(mean exchange) ;

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

. table m3_physatt4 f3_physatt4, contents(mean exchange) ;

----------------------------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |          RECODE of f3_physatt
eness)    |        2         3         4         5
----------+-----------------------------------------
        2 |        0  .3333333  .3333333  .3333333
        3 | .3333333         0  .3333333  .3333333
        4 | .3333333  .3333333         0  .3333333
        5 | .3333333  .3333333  .3333333         0
----------------------------------------------------

. display "exchange_trad--that is, gender-stereotypical exchange (trad=traditional)"
;
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)

. gen exchange_trad = 0 ;

. replace exchange_trad = 1 if ((f3_ee_cgrdp < m3_ee_cgrdp) & (f3_physatt4 >
m3_physatt4))
> ;
(18 real changes made)

. table m3_ee_cgrdp f3_ee_cgrdp, contents(mean exchange_trad) ;

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

. table m3_physatt4 f3_physatt4, contents(mean exchange_trad) ;

----------------------------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
```

```
attractiv |          RECODE of f3_physatt
eness)    |        2         3         4         5
----------+--------------------------------------
        2 |        0  .3333333  .3333333  .3333333
        3 |        0         0  .3333333  .3333333
        4 |        0         0         0  .3333333
        5 |        0         0         0         0
--------------------------------------------------

. display "model with gender-symmetric exchange term but without
gender-stereotypical excha
> nge term" ;
model with gender-symmetric exchange term but without gender-stereotypical exchange
term

. desmat: nbreg count edu_endog physatt_endog exchange f3_ee_cgrdp m3_ee_cgrdp
m3_physatt4
> f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
--------------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.228
   Log likelihood:
-164.232
   LR chi square:
185.992
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.362
   Dispersion:
 mean
   Prob:
0.000
--------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
--------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.506**
0.104
     physatt_endog
2      1                                                                     0.669**
0.099
     exchange
3      1                                                                     0.178
0.201
     f3_ee_cgrdp
4      1                                                                    -0.836**
0.297
     m3_ee_cgrdp
```

```
5      1                                                                  -1.937**
0.370
     m3_physatt4
6      3                                                                   1.893**
0.154
7      4                                                                   1.399**
0.158
8      5                                                                  -0.084
0.189
     f3_physatt4
9      3                                                                   1.591**
0.168
10     4                                                                   1.523**
0.169
11     5                                                                   0.664**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                 0.094
0.323
13     1.4                                                                 0.598
0.324
14     1.5                                                                 1.040**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                 0.653
0.387
16     1.4                                                                 1.092**
0.391
17     1.5                                                                 1.581**
0.424
18   _cons                                                                 0.092
0.207
   lnalpha
19   _cons                                                                -3.929**
0.779
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.2278   -164.2319     19     366.4638    407.4826
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. display "model with gender-symmetric exchange term and gender-stereotypical
exchange term
> " ;
model with gender-symmetric exchange term and gender-stereotypical exchange term

. desmat: nbreg count edu_endog physatt_endog exchange exchange_trad f3_ee_cgrdp
m3_ee_cgrd
> p m3_physatt4 f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
```

```
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.228
   Log likelihood:
-164.217
   LR chi square:
186.022
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.362
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.508**
0.104
     physatt_endog
2      1                                                                    0.669**
0.099
     exchange
3      1                                                                    0.146
0.271
     exchange_trad
4      1                                                                    0.067
0.389
     f3_ee_cgrdp
5      1                                                                   -0.820**
0.312
     m3_ee_cgrdp
6      1                                                                   -1.950**
0.377
     m3_physatt4
7      3                                                                    1.893**
0.154
8      4                                                                    1.402**
0.159
9      5                                                                   -0.080
0.191
     f3_physatt4
10     3                                                                    1.592**
0.168
11     4                                                                    1.521**
0.169
12     5                                                                    0.661**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                  0.086
0.326
```

```
14     1.4                                                                  0.589
0.328
15     1.5                                                                  1.032**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.657
0.387
17     1.4                                                                  1.097**
0.392
18     1.5                                                                  1.586**
0.425
19   _cons                                                                  0.089
0.207
   lnalpha
20   _cons                                                                 -3.937**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.2278   -164.2169     20     368.4338    411.6115
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. *** MIM ***;
. forvalues i = 1/10 { ;
  2. use "...\temp_mim.dta", clear ;
  3. keep if _mj == `i' ;
  4. display "imputation is `i'" ;
  5. display "tab before contract" ;
  6. tab1 f3_physatt4 m3_physatt4 f3_ee_cgrdp m3_ee_cgrdp ;
  7. contract m3_physatt4 f3_physatt4 f3_ee_cgrdp m3_ee_cgrdp, freq(count) zero ;
  8. display "edu_endog" ;
  9. gen edu_endog = 0 ;
 10. replace edu_endog = 1 if m3_ee_cgrdp == f3_ee_cgrdp ;
 11.  table m3_ee_cgrdp f3_ee_cgrdp, contents(mean edu_endog) ;
 12. display "physatt_endog" ;
 13. gen physatt_endog = 0 ;
 14. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
 15.  table m3_physatt4 f3_physatt4, contents(mean physatt_endog) ;
 16. display "exchange" ;
 17. gen exchange = 0 ;
 18. replace exchange = 1 if ((f3_ee_cgrdp > m3_ee_cgrdp) & (f3_physatt4 <
m3_physatt4))
>                       | ((f3_ee_cgrdp < m3_ee_cgrdp) & (f3_physatt4 >
m3_physatt4)) ;
 19. table m3_ee_cgrdp f3_ee_cgrdp, contents(mean exchange) ;
 20. table m3_physatt4 f3_physatt4, contents(mean exchange) ;
 21. display "exchange_trad--that is, gender-stereotypical exchange
(trad=traditional)" ;
 22. gen exchange_trad = 0 ;
 23. replace exchange_trad = 1 if ((f3_ee_cgrdp < m3_ee_cgrdp) & (f3_physatt4 >
m3_physatt4
> )) ;
 24. table m3_ee_cgrdp f3_ee_cgrdp, contents(mean exchange_trad) ;
```

```
 25. table m3_physatt4 f3_physatt4, contents(mean exchange_trad) ;
 26. display "poisson, without gender-stereotypical exchange term (only
gender-symmetric ex
> change)" ;
 27. desmat: poisson count edu_endog physatt_endog exchange f3_ee_cgrdp m3_ee_cgrdp
m3_phys
> att4 f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
 28.  estat ic ;
 29. display "poisson, with gender-stereotypical exchange term" ;
 30. desmat: poisson count edu_endog physatt_endog exchange exchange_trad
f3_ee_cgrdp m3_ee
> _cgrdp m3_physatt4 f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
 31.  estat ic ;
 32. display "nbreg, without gender-stereotypical exchange term (only
gender-symmetric exch
> ange)" ;
 33. desmat: nbreg count edu_endog physatt_endog exchange f3_ee_cgrdp m3_ee_cgrdp
m3_physat
> t4 f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
 34.  estat ic ;
 35. * this is the coef matrix *;
. matrix b1=e(b) ;
 36.  matrix list b1 ;
 37. matrix v1=e(V) ;
 38. forvalues j=1/3 { ;
 39. gen b1_`j'=b1[1,`j'] ;
 40. gen v1_`j'=v1[`j',`j'] ;
 41. gen se1_`j'=sqrt(v1_`j');
 42. } ;
 43. display "nbreg, with gender-stereotypical exchange term" ;
 44. desmat: nbreg count edu_endog physatt_endog exchange exchange_trad f3_ee_cgrdp
m3_ee_c
> grdp m3_physatt4 f3_physatt4 f3_ee_cgrdp*f3_physatt4 m3_ee_cgrdp*m3_physatt4 ;
 45.  estat ic ;
 46. * this is the coef matrix *;
. matrix b2=e(b) ;
 47.  matrix list b2 ;
 48. matrix v2=e(V) ;
 49. forvalues j=1/4 { ;
 50. gen b2_`j'=b2[1,`j'] ;
 51. gen v2_`j'=v2[`j',`j'] ;
 52. gen se2_`j'=sqrt(v2_`j');
 53. } ;
 54. drop _* ;
 55. gen mj=`i' ;
 56. keep mj b* v* se* ;
 57. des ;
 58.  sum ;
 59. sample 1, count ;
 60.  save "...\temp`i'", replace ;
 61. };
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 1
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
```

```
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

-----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
```

```
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
```

```
-------------------------------------------------------------------------------
-------
   Poisson regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                          Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                            1.493**
0.085
     physatt_endog
2      1                                                            0.536**
0.058
     exchange
3      1                                                            0.096
0.175
     f3_ee_cgrdp
4      1                                                           -0.806**
0.279
     m3_ee_cgrdp
5      1                                                           -1.927**
0.358
     m3_physatt4
6      3                                                            1.943**
0.123
7      4                                                            1.415**
0.128
8      5                                                           -0.034
0.162
     f3_physatt4
9      3                                                            1.648**
0.132
10     4                                                            1.605**
0.131
11     5                                                            0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                          0.087
0.292
13     1.4                                                          0.576*
```

```
0.292
14     1.5                                                                  0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.635
0.366
16     1.4                                                                  1.137**
0.368
17     1.5                                                                  1.548**
0.403
18   _cons                                                                  0.059
0.176
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.497**
0.086
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
```

```
3      1                                                                  0.051
0.239
     exchange_trad
4      1                                                                  0.097
0.351
     f3_ee_cgrdp
5      1                                                                 -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                 -1.946**
0.364
     m3_physatt4
7      3                                                                  1.943**
0.123
8      4                                                                  1.417**
0.129
9      5                                                                 -0.029
0.163
     f3_physatt4
10     3                                                                  1.649**
0.132
11     4                                                                  1.603**
0.131
12     5                                                                  0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.077
0.295
14     1.4                                                                0.563
0.296
15     1.5                                                                0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.641
0.366
17     1.4                                                                1.146**
0.370
18     1.5                                                                1.556**
0.404
19   _cons                                                                0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
```

```
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.501**
0.103
     physatt_endog
2      1                                                                    0.664**
0.099
     exchange
3      1                                                                    0.170
0.200
     f3_ee_cgrdp
4      1                                                                   -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                   -1.954**
0.370
     m3_physatt4
6      3                                                                    1.879**
0.154
7      4                                                                    1.384**
0.158
8      5                                                                   -0.087
0.189
     f3_physatt4
9      3                                                                    1.599**
0.168
10     4                                                                    1.527**
0.168
11     5                                                                    0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.323
13     1.4                                                                  0.603
0.324
14     1.5                                                                  1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.668
0.386
```

```
16     1.4                                                                  1.108**
0.391
17     1.5                                                                  1.585**
0.424
18   _cons                                                                  0.108
0.206
   lnalpha
19   _cons                                                                 -3.937**
0.779
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
```

```
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.504**
0.104
     physatt_endog
2      1                                                                    0.663**
0.099
     exchange
3      1                                                                    0.133
0.270
     exchange_trad
4      1                                                                    0.081
0.388
     f3_ee_cgrdp
5      1                                                                   -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                   -1.970**
0.377
     m3_physatt4
7      3                                                                    1.879**
0.154
8      4                                                                    1.387**
0.158
9      5                                                                   -0.082
0.190
     f3_physatt4
10     3                                                                    1.600**
0.168
11     4                                                                    1.525**
0.169
12     5                                                                    0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                  0.078
0.325
14     1.4                                                                  0.592
0.328
15     1.5                                                                  1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.673
0.387
17     1.4                                                                  1.114**
0.392
18     1.5                                                                  1.591**
0.425
19   _cons                                                                  0.105
0.207
   lnalpha
20   _cons                                                                 -3.947**
0.782
-------------------------------------------------------------------------------------
```

```
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
```

```
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+--------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+--------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           1           0          1          1
(63 observations deleted)
file ...\temp1.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 2
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
```

```
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
```

```
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
```

```
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.493**
0.085
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.096
0.175
     f3_ee_cgrdp
4      1                                                                   -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                   -1.927**
0.358
     m3_physatt4
6      3                                                                    1.943**
0.123
7      4                                                                    1.415**
0.128
8      5                                                                   -0.034
0.162
     f3_physatt4
9      3                                                                    1.648**
0.132
10     4                                                                    1.605**
0.131
11     5                                                                    0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.292
13     1.4                                                                  0.576*
0.292
14     1.5                                                                  0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.635
0.366
16     1.4                                                                  1.137**
0.368
17     1.5                                                                  1.548**
0.403
18   _cons                                                                  0.059
0.176
```

```
-------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
-------------------------------------------------------------------------------
-------
   Poisson regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.497**
0.086
     physatt_endog
2      1                                                                 0.536**
0.058
     exchange
3      1                                                                 0.051
0.239
     exchange_trad
4      1                                                                 0.097
0.351
     f3_ee_cgrdp
5      1                                                                -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                -1.946**
0.364
     m3_physatt4
```

```
7      3                                                                  1.943**
0.123
8      4                                                                  1.417**
0.129
9      5                                                                 -0.029
0.163
     f3_physatt4
10     3                                                                  1.649**
0.132
11     4                                                                  1.603**
0.131
12     5                                                                  0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.077
0.295
14     1.4                                                                0.563
0.296
15     1.5                                                                0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.641
0.366
17     1.4                                                                1.146**
0.370
18     1.5                                                                1.556**
0.404
19   _cons                                                                0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
```

```
0.363
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.501**
0.103
     physatt_endog
2      1                                                                 0.664**
0.099
     exchange
3      1                                                                 0.170
0.200
     f3_ee_cgrdp
4      1                                                                -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                -1.954**
0.370
     m3_physatt4
6      3                                                                 1.879**
0.154
7      4                                                                 1.384**
0.158
8      5                                                                -0.087
0.189
     f3_physatt4
9      3                                                                 1.599**
0.168
10     4                                                                 1.527**
0.168
11     5                                                                 0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                               0.087
0.323
13     1.4                                                               0.603
0.324
14     1.5                                                               1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                               0.668
0.386
16     1.4                                                               1.108**
0.391
17     1.5                                                               1.585**
0.424
18   _cons                                                               0.108
0.206
   lnalpha
19   _cons                                                              -3.937**
0.779
-------------------------------------------------------------------------------
-------
*  p < .05
```

```
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
```

```
1      1                                                                  1.504**
0.104
     physatt_endog
2      1                                                                  0.663**
0.099
     exchange
3      1                                                                  0.133
0.270
     exchange_trad
4      1                                                                  0.081
0.388
     f3_ee_cgrdp
5      1                                                                 -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                 -1.970**
0.377
     m3_physatt4
7      3                                                                  1.879**
0.154
8      4                                                                  1.387**
0.158
9      5                                                                 -0.082
0.190
     f3_physatt4
10     3                                                                  1.600**
0.168
11     4                                                                  1.525**
0.169
12     5                                                                  0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.078
0.325
14     1.4                                                                0.592
0.328
15     1.5                                                                1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.673
0.387
17     1.4                                                                1.114**
0.392
18     1.5                                                                1.591**
0.425
19   _cons                                                                0.105
0.207
   lnalpha
20   _cons                                                               -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
```

```
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+---------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+---------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+---------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+---------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           2           0          2          2
(63 observations deleted)
file ...\temp2.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 3
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp
```

```
Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
```

```
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
```

```
-------
nr Effect                                                                    Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                      1.493**
0.085
     physatt_endog
2      1                                                                      0.536**
0.058
     exchange
3      1                                                                      0.096
0.175
     f3_ee_cgrdp
4      1                                                                     -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                     -1.927**
0.358
     m3_physatt4
6      3                                                                      1.943**
0.123
7      4                                                                      1.415**
0.128
8      5                                                                     -0.034
0.162
     f3_physatt4
9      3                                                                      1.648**
0.132
10     4                                                                      1.605**
0.131
11     5                                                                      0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                    0.087
0.292
13     1.4                                                                    0.576*
0.292
14     1.5                                                                    0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                    0.635
0.366
16     1.4                                                                    1.137**
0.368
17     1.5                                                                    1.548**
0.403
18   _cons                                                                    0.059
0.176
-------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
```

```
                Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
-------------------------------------------------------------------------------
-------
   Poisson regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                          Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                            1.497**
0.086
     physatt_endog
2      1                                                            0.536**
0.058
     exchange
3      1                                                            0.051
0.239
     exchange_trad
4      1                                                            0.097
0.351
     f3_ee_cgrdp
5      1                                                           -0.783**
0.291
     m3_ee_cgrdp
6      1                                                           -1.946**
0.364
     m3_physatt4
7      3                                                            1.943**
0.123
8      4                                                            1.417**
0.129
9      5                                                           -0.029
0.163
     f3_physatt4
10     3                                                            1.649**
0.132
11     4                                                            1.603**
0.131
12     5                                                            0.708**
```

```
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                  0.077
0.295
14     1.4                                                                  0.563
0.296
15     1.5                                                                  0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.641
0.366
17     1.4                                                                  1.146**
0.370
18     1.5                                                                  1.556**
0.404
19   _cons                                                                  0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
```

```
     edu_endog
1      1                                                                 1.501**
0.103
     physatt_endog
2      1                                                                 0.664**
0.099
     exchange
3      1                                                                 0.170
0.200
     f3_ee_cgrdp
4      1                                                                -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                -1.954**
0.370
     m3_physatt4
6      3                                                                 1.879**
0.154
7      4                                                                 1.384**
0.158
8      5                                                                -0.087
0.189
     f3_physatt4
9      3                                                                 1.599**
0.168
10     4                                                                 1.527**
0.168
11     5                                                                 0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                               0.087
0.323
13     1.4                                                               0.603
0.324
14     1.5                                                               1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                               0.668
0.386
16     1.4                                                               1.108**
0.391
17     1.5                                                               1.585**
0.424
18   _cons                                                               0.108
0.206
   lnalpha
19   _cons                                                              -3.937**
0.779
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
```

```
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                               1.504**
0.104
     physatt_endog
2      1                                                               0.663**
0.099
     exchange
3      1                                                               0.133
0.270
     exchange_trad
4      1                                                               0.081
0.388
     f3_ee_cgrdp
```

```
5      1                                                                  -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                  -1.970**
0.377
     m3_physatt4
7      3                                                                   1.879**
0.154
8      4                                                                   1.387**
0.158
9      5                                                                  -0.082
0.190
     f3_physatt4
10     3                                                                   1.600**
0.168
11     4                                                                   1.525**
0.169
12     5                                                                   0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                 0.078
0.325
14     1.4                                                                 0.592
0.328
15     1.5                                                                 1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                 0.673
0.387
17     1.4                                                                 1.114**
0.392
18     1.5                                                                 1.591**
0.425
19   _cons                                                                 0.105
0.207
   lnalpha
20   _cons                                                                -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
```

```
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
```

```
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+---------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+---------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           3           0          3          3
(63 observations deleted)
file ...\temp3.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 4
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
```

```
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,174       77.90       77.90
          1 |        333       22.10      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
```

```
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.415
   LR chi square:
2967.409
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.498**
0.085
     physatt_endog
2      1                                                                     0.536**
0.058
```

```
     exchange
3      1                                                                 0.095
0.175
     f3_ee_cgrdp
4      1                                                                -0.808**
0.279
     m3_ee_cgrdp
5      1                                                                -1.807**
0.342
     m3_physatt4
6      3                                                                 1.956**
0.124
7      4                                                                 1.429**
0.129
8      5                                                                -0.020
0.163
     f3_physatt4
9      3                                                                 1.648**
0.132
10     4                                                                 1.604**
0.131
11     5                                                                 0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                               0.089
0.292
13     1.4                                                               0.578*
0.292
14     1.5                                                               0.989**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                               0.517
0.350
16     1.4                                                               1.018**
0.353
17     1.5                                                               1.429**
0.389
18   _cons                                                               0.042
0.177
------------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.4146     18     368.8292    407.6891
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
```

```
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.390
   LR chi square:
2967.459
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.501**
0.086
     physatt_endog
2      1                                                                 0.536**
0.058
     exchange
3      1                                                                 0.059
0.239
     exchange_trad
4      1                                                                 0.078
0.351
     f3_ee_cgrdp
5      1                                                                -0.790**
0.291
     m3_ee_cgrdp
6      1                                                                -1.822**
0.349
     m3_physatt4
7      3                                                                 1.957**
0.124
8      4                                                                 1.430**
0.129
9      5                                                                -0.017
0.164
     f3_physatt4
10     3                                                                 1.648**
0.132
11     4                                                                 1.603**
0.131
12     5                                                                 0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                               0.081
0.295
14     1.4                                                               0.567
0.296
15     1.5                                                               0.979**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                               0.521
0.351
17     1.4                                                               1.025**
```

```
0.355
18     1.5                                                                  1.436**
0.390
19   _cons                                                                  0.039
0.178
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.3898     19     370.7795    411.7983
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
--------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.521
   LR chi square:
185.986
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.361
   Dispersion:
 mean
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.509**
0.104
     physatt_endog
2      1                                                                    0.666**
0.099
     exchange
3      1                                                                    0.171
0.200
     f3_ee_cgrdp
4      1                                                                   -0.836**
0.297
```

```
     m3_ee_cgrdp
5      1                                                                -1.833**
0.354
     m3_physatt4
6      3                                                                 1.896**
0.154
7      4                                                                 1.401**
0.158
8      5                                                                -0.071
0.189
     f3_physatt4
9      3                                                                 1.598**
0.168
10     4                                                                 1.526**
0.169
11     5                                                                 0.665**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                               0.089
0.323
13     1.4                                                               0.605
0.324
14     1.5                                                               1.039**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                               0.548
0.372
16     1.4                                                               0.987**
0.376
17     1.5                                                               1.465**
0.411
18   _cons                                                               0.087
0.207
   lnalpha
19   _cons                                                              -3.933**
0.778
------------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.5213     19     367.0425    408.0613
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5089341   .66558422   .17136362  -.83583387  -1.8330504   1.8960085
1.4005673

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.07120302    1.598024   1.5258182   .66453678    .0889413   .60471779
```

```
1.0394635

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .54756917   .98708616   1.4648998   .08650029  -3.9325037
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.510
   LR chi square:
186.008
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.361
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.511**
0.104
     physatt_endog
2      1                                                                  0.665**
0.099
     exchange
3      1                                                                  0.144
0.271
     exchange_trad
4      1                                                                  0.058
0.389
     f3_ee_cgrdp
5      1                                                                 -0.821**
0.312
     m3_ee_cgrdp
6      1                                                                 -1.844**
0.362
     m3_physatt4
7      3                                                                  1.896**
0.154
8      4                                                                  1.403**
0.159
9      5                                                                 -0.067
0.190
```

```
     f3_physatt4
10     3                                                                  1.599**
0.168
11     4                                                                  1.524**
0.169
12     5                                                                  0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.082
0.326
14     1.4                                                                0.597
0.328
15     1.5                                                                1.032**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.551
0.372
17     1.4                                                                0.992**
0.378
18     1.5                                                                1.469**
0.412
19   _cons                                                                0.084
0.207
   lnalpha
20   _cons                                                               -3.940**
0.781
------------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.5103     20     369.0206    412.1982
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5108725   .66498424   .14440208   .05761332  -.82144591  -1.8441806
1.8962561

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.4026013  -.06743787   1.5986689   1.5243022   .66151527   .08222351
.59690124

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1   1.0319132    .5507651   .99197219   1.4691689   .08437122  -3.9395259

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
```

```
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.508934           0   1.508934   1.508934
        v1_1 |        64    .0107273           0   .0107273   .0107273
       se1_1 |        64    .1035725           0   .1035725   .1035725
        b1_2 |        64    .6655842           0   .6655842   .6655842
        v1_2 |        64    .0098005           0   .0098005   .0098005
-------------+--------------------------------------------------------
       se1_2 |        64    .0989976           0   .0989976   .0989976
        b1_3 |        64    .1713636           0   .1713636   .1713636
        v1_3 |        64    .0401057           0   .0401057   .0401057
       se1_3 |        64    .2002642           0   .2002642   .2002642
        b2_1 |        64    1.510872           0   1.510872   1.510872
-------------+--------------------------------------------------------
        v2_1 |        64    .0108957           0   .0108957   .0108957
       se2_1 |        64    .1043826           0   .1043826   .1043826
        b2_2 |        64    .6649842           0   .6649842   .6649842
        v2_2 |        64    .0098101           0   .0098101   .0098101
       se2_2 |        64    .0990458           0   .0990458   .0990458
-------------+--------------------------------------------------------
        b2_3 |        64    .1444021           0   .1444021   .1444021
        v2_3 |        64    .0733384           0   .0733384   .0733384
       se2_3 |        64    .2708106           0   .2708106   .2708106
        b2_4 |        64    .0576133           0   .0576133   .0576133
        v2_4 |        64    .1511219           0   .1511219   .1511219
-------------+--------------------------------------------------------
       se2_4 |        64     .388744           0    .388744    .388744
```

```
          mj |        64           4           0           4           4
(63 observations deleted)
file ...\temp4.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 5
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
```

```
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
-----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.493**
0.085
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.096
0.175
     f3_ee_cgrdp
4      1                                                                   -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                   -1.927**
0.358
     m3_physatt4
6      3                                                                    1.943**
0.123
```

```
7      4                                                                    1.415**
0.128
8      5                                                                   -0.034
0.162
     f3_physatt4
9      3                                                                    1.648**
0.132
10     4                                                                    1.605**
0.131
11     5                                                                    0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.292
13     1.4                                                                  0.576*
0.292
14     1.5                                                                  0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.635
0.366
16     1.4                                                                  1.137**
0.368
17     1.5                                                                  1.548**
0.403
18   _cons                                                                  0.059
0.176
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
```

```
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                               1.497**
0.086
     physatt_endog
2      1                                                               0.536**
0.058
     exchange
3      1                                                               0.051
0.239
     exchange_trad
4      1                                                               0.097
0.351
     f3_ee_cgrdp
5      1                                                              -0.783**
0.291
     m3_ee_cgrdp
6      1                                                              -1.946**
0.364
     m3_physatt4
7      3                                                               1.943**
0.123
8      4                                                               1.417**
0.129
9      5                                                              -0.029
0.163
     f3_physatt4
10     3                                                               1.649**
0.132
11     4                                                               1.603**
0.131
12     5                                                               0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                             0.077
0.295
14     1.4                                                             0.563
0.296
15     1.5                                                             0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                             0.641
0.366
17     1.4                                                             1.146**
0.370
18     1.5                                                             1.556**
0.404
19   _cons                                                             0.055
0.177
-------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion
```

```
-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.501**
0.103
     physatt_endog
2      1                                                                     0.664**
0.099
     exchange
3      1                                                                     0.170
0.200
     f3_ee_cgrdp
4      1                                                                    -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                    -1.954**
0.370
     m3_physatt4
6      3                                                                     1.879**
0.154
7      4                                                                     1.384**
0.158
8      5                                                                    -0.087
0.189
     f3_physatt4
9      3                                                                     1.599**
```

```
0.168
10     4                                                                  1.527**
0.168
11     5                                                                  0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                0.087
0.323
13     1.4                                                                0.603
0.324
14     1.5                                                                1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                0.668
0.386
16     1.4                                                                1.108**
0.391
17     1.5                                                                1.585**
0.424
18   _cons                                                                0.108
0.206
   lnalpha
19   _cons                                                               -3.937**
0.779
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
```

```
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.504**
0.104
     physatt_endog
2      1                                                                  0.663**
0.099
     exchange
3      1                                                                  0.133
0.270
     exchange_trad
4      1                                                                  0.081
0.388
     f3_ee_cgrdp
5      1                                                                 -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                 -1.970**
0.377
     m3_physatt4
7      3                                                                  1.879**
0.154
8      4                                                                  1.387**
0.158
9      5                                                                 -0.082
0.190
     f3_physatt4
10     3                                                                  1.600**
0.168
11     4                                                                  1.525**
0.169
12     5                                                                  0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.078
0.325
14     1.4                                                                0.592
0.328
```

```
15     1.5                                                                  1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.673
0.387
17     1.4                                                                  1.114**
0.392
18     1.5                                                                  1.591**
0.425
19   _cons                                                                  0.105
0.207
   lnalpha
20   _cons                                                                 -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
------------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
------------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
```

```
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
--------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+--------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+--------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           5           0          5          5
(63 observations deleted)
file ...\temp5.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 6
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
```

```
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
```

```
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     1      0      0      0
        3 |     0      1      0      0
        4 |     0      0      1      0
        5 |     0      0      0      1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |     0      1
----------+-----------
        0 |     0   .375
        1 |  .375      0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     0    .25    .25    .25
        3 |   .25      0    .25    .25
        4 |   .25    .25      0    .25
        5 |   .25    .25    .25      0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |     0      1
----------+-----------
        0 |     0      0
        1 |  .375      0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     0    .25    .25    .25
        3 |     0      0    .25    .25
        4 |     0      0      0    .25
```

```
        5 |    0     0     0     0
-----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
-------------------------------------------------------------------------------------
-------
   Poisson regression
-------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.493**
0.085
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.096
0.175
     f3_ee_cgrdp
4      1                                                                   -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                   -1.927**
0.358
     m3_physatt4
6      3                                                                    1.943**
0.123
7      4                                                                    1.415**
0.128
8      5                                                                   -0.034
0.162
     f3_physatt4
9      3                                                                    1.648**
0.132
10     4                                                                    1.605**
0.131
11     5                                                                    0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
```

```
12     1.3                                                                  0.087
0.292
13     1.4                                                                  0.576*
0.292
14     1.5                                                                  0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.635
0.366
16     1.4                                                                  1.137**
0.368
17     1.5                                                                  1.548**
0.403
18   _cons                                                                  0.059
0.176
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
   Poisson regression
--------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.497**
0.086
     physatt_endog
```

```
2      1                                                                  0.536**
0.058
     exchange
3      1                                                                  0.051
0.239
     exchange_trad
4      1                                                                  0.097
0.351
     f3_ee_cgrdp
5      1                                                                 -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                 -1.946**
0.364
     m3_physatt4
7      3                                                                  1.943**
0.123
8      4                                                                  1.417**
0.129
9      5                                                                 -0.029
0.163
     f3_physatt4
10     3                                                                  1.649**
0.132
11     4                                                                  1.603**
0.131
12     5                                                                  0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.077
0.295
14     1.4                                                                0.563
0.296
15     1.5                                                                0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.641
0.366
17     1.4                                                                1.146**
0.370
18     1.5                                                                1.556**
0.404
19   _cons                                                                0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
```

```
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.501**
0.103
     physatt_endog
2      1                                                                    0.664**
0.099
     exchange
3      1                                                                    0.170
0.200
     f3_ee_cgrdp
4      1                                                                   -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                   -1.954**
0.370
     m3_physatt4
6      3                                                                    1.879**
0.154
7      4                                                                    1.384**
0.158
8      5                                                                   -0.087
0.189
     f3_physatt4
9      3                                                                    1.599**
0.168
10     4                                                                    1.527**
0.168
11     5                                                                    0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.323
13     1.4                                                                  0.603
0.324
14     1.5                                                                  1.037**
0.342
```

```
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.668
0.386
16     1.4                                                                  1.108**
0.391
17     1.5                                                                  1.585**
0.424
18   _cons                                                                  0.108
0.206
   lnalpha
19   _cons                                                                 -3.937**
0.779
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
```

```
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.504**
0.104
     physatt_endog
2      1                                                                    0.663**
0.099
     exchange
3      1                                                                    0.133
0.270
     exchange_trad
4      1                                                                    0.081
0.388
     f3_ee_cgrdp
5      1                                                                   -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                   -1.970**
0.377
     m3_physatt4
7      3                                                                    1.879**
0.154
8      4                                                                    1.387**
0.158
9      5                                                                   -0.082
0.190
     f3_physatt4
10     3                                                                    1.600**
0.168
11     4                                                                    1.525**
0.169
12     5                                                                    0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                  0.078
0.325
14     1.4                                                                  0.592
0.328
15     1.5                                                                  1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.673
0.387
17     1.4                                                                  1.114**
0.392
18     1.5                                                                  1.591**
0.425
19   _cons                                                                  0.105
0.207
   lnalpha
```

```
20   _cons                                                                  -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
        _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
------------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
------------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
```

```
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+--------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+--------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           6           0          6          6
(63 observations deleted)
file ...\temp6.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 7
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
```

```
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
```

```
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
```

```
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.493**
0.085
     physatt_endog
2      1                                                                  0.536**
0.058
     exchange
3      1                                                                  0.096
0.175
     f3_ee_cgrdp
4      1                                                                 -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                 -1.927**
0.358
     m3_physatt4
6      3                                                                  1.943**
0.123
7      4                                                                  1.415**
0.128
8      5                                                                 -0.034
0.162
     f3_physatt4
9      3                                                                  1.648**
0.132
10     4                                                                  1.605**
0.131
11     5                                                                  0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                0.087
0.292
13     1.4                                                                0.576*
0.292
14     1.5                                                                0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                0.635
0.366
16     1.4                                                                1.137**
0.368
17     1.5                                                                1.548**
```

```
0.403
18   _cons                                                                  0.059
0.176
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                   1.497**
0.086
     physatt_endog
2      1                                                                   0.536**
0.058
     exchange
3      1                                                                   0.051
0.239
     exchange_trad
4      1                                                                   0.097
0.351
     f3_ee_cgrdp
5      1                                                                  -0.783**
0.291
     m3_ee_cgrdp
```

```
6      1                                                                  -1.946**
0.364
     m3_physatt4
7      3                                                                   1.943**
0.123
8      4                                                                   1.417**
0.129
9      5                                                                  -0.029
0.163
     f3_physatt4
10     3                                                                   1.649**
0.132
11     4                                                                   1.603**
0.131
12     5                                                                   0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                 0.077
0.295
14     1.4                                                                 0.563
0.296
15     1.5                                                                 0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                 0.641
0.366
17     1.4                                                                 1.146**
0.370
18     1.5                                                                 1.556**
0.404
19   _cons                                                                 0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
```

```
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.501**
0.103
     physatt_endog
2      1                                                                    0.664**
0.099
     exchange
3      1                                                                    0.170
0.200
     f3_ee_cgrdp
4      1                                                                   -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                   -1.954**
0.370
     m3_physatt4
6      3                                                                    1.879**
0.154
7      4                                                                    1.384**
0.158
8      5                                                                   -0.087
0.189
     f3_physatt4
9      3                                                                    1.599**
0.168
10     4                                                                    1.527**
0.168
11     5                                                                    0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.323
13     1.4                                                                  0.603
0.324
14     1.5                                                                  1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.668
0.386
16     1.4                                                                  1.108**
0.391
17     1.5                                                                  1.585**
0.424
18   _cons                                                                  0.108
0.206
   lnalpha
19   _cons                                                                 -3.937**
0.779
```

```
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
```

```
-------
   count
     edu_endog
1      1                                                                1.504**
0.104
     physatt_endog
2      1                                                                0.663**
0.099
     exchange
3      1                                                                0.133
0.270
     exchange_trad
4      1                                                                0.081
0.388
     f3_ee_cgrdp
5      1                                                               -0.812**
0.312
     m3_ee_cgrdp
6      1                                                               -1.970**
0.377
     m3_physatt4
7      3                                                                1.879**
0.154
8      4                                                                1.387**
0.158
9      5                                                               -0.082
0.190
     f3_physatt4
10     3                                                                1.600**
0.168
11     4                                                                1.525**
0.169
12     5                                                                0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                              0.078
0.325
14     1.4                                                              0.592
0.328
15     1.5                                                              1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                              0.673
0.387
17     1.4                                                              1.114**
0.392
18     1.5                                                              1.591**
0.425
19   _cons                                                              0.105
0.207
   lnalpha
20   _cons                                                             -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
```

```
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved
```

Variable	Obs	Mean	Std. Dev.	Min	Max
b1_1	64	1.501345	0	1.501345	1.501345
v1_1	64	.0106843	0	.0106843	.0106843
se1_1	64	.1033651	0	.1033651	.1033651
b1_2	64	.6642442	0	.6642442	.6642442
v1_2	64	.0097194	0	.0097194	.0097194
se1_2	64	.0985868	0	.0985868	.0985868
b1_3	64	.1703256	0	.1703256	.1703256
v1_3	64	.0400251	0	.0400251	.0400251
se1_3	64	.2000627	0	.2000627	.2000627
b2_1	64	1.504087	0	1.504087	1.504087
v2_1	64	.0108564	0	.0108564	.0108564
se2_1	64	.104194	0	.104194	.104194
b2_2	64	.6634507	0	.6634507	.6634507
v2_2	64	.0097254	0	.0097254	.0097254
se2_2	64	.0986175	0	.0986175	.0986175
b2_3	64	.1326787	0	.1326787	.1326787
v2_3	64	.0730245	0	.0730245	.0730245
se2_3	64	.2702305	0	.2702305	.2702305
b2_4	64	.0807587	0	.0807587	.0807587
v2_4	64	.1509283	0	.1509283	.1509283
se2_4	64	.3884949	0	.3884949	.3884949
mj	64	7	0	7	7

(63 observations deleted)
file ...\temp7.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 8
tab before contract

-> tabulation of f3_physatt4

RECODE of f3_physatt	Freq.	Percent	Cum.
2	87	5.77	5.77
3	596	39.55	45.32
4	586	38.89	84.21
5	238	15.79	100.00
Total	1,507	100.00	

-> tabulation of m3_physatt4

RECODE of m3_physatt (W3 - Interviewer -rated physical attractiveness)	Freq.	Percent	Cum.
2	85	5.64	5.64
3	777	51.56	57.20
4	521	34.57	91.77
5	124	8.23	100.00

```
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
-----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

-----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
-----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
```

```
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.493**
0.085
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.096
0.175
     f3_ee_cgrdp
4      1                                                                   -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                   -1.927**
0.358
     m3_physatt4
6      3                                                                    1.943**
0.123
7      4                                                                    1.415**
0.128
8      5                                                                   -0.034
0.162
     f3_physatt4
9      3                                                                    1.648**
0.132
10     4                                                                    1.605**
0.131
11     5                                                                    0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                  0.087
0.292
13     1.4                                                                  0.576*
0.292
14     1.5                                                                  0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                  0.635
0.366
16     1.4                                                                  1.137**
0.368
17     1.5                                                                  1.548**
0.403
18   _cons                                                                  0.059
0.176
-------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
```

```
-------------+-----------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.497**
0.086
     physatt_endog
2      1                                                                  0.536**
0.058
     exchange
3      1                                                                  0.051
0.239
     exchange_trad
4      1                                                                  0.097
0.351
     f3_ee_cgrdp
5      1                                                                 -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                 -1.946**
0.364
     m3_physatt4
7      3                                                                  1.943**
0.123
8      4                                                                  1.417**
0.129
9      5                                                                 -0.029
0.163
     f3_physatt4
10     3                                                                  1.649**
0.132
```

```
11     4                                                                1.603**
0.131
12     5                                                                0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                              0.077
0.295
14     1.4                                                              0.563
0.296
15     1.5                                                              0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                              0.641
0.366
17     1.4                                                              1.146**
0.370
18     1.5                                                              1.556**
0.404
19   _cons                                                              0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
```

```
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.501**
0.103
     physatt_endog
2      1                                                                 0.664**
0.099
     exchange
3      1                                                                 0.170
0.200
     f3_ee_cgrdp
4      1                                                                -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                -1.954**
0.370
     m3_physatt4
6      3                                                                 1.879**
0.154
7      4                                                                 1.384**
0.158
8      5                                                                -0.087
0.189
     f3_physatt4
9      3                                                                 1.599**
0.168
10     4                                                                 1.527**
0.168
11     5                                                                 0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                               0.087
0.323
13     1.4                                                               0.603
0.324
14     1.5                                                               1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                               0.668
0.386
16     1.4                                                               1.108**
0.391
17     1.5                                                               1.585**
0.424
18   _cons                                                               0.108
0.206
   lnalpha
19   _cons                                                              -3.937**
0.779
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC          BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
```

```
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                   1.504**
0.104
     physatt_endog
2      1                                                                   0.663**
0.099
     exchange
3      1                                                                   0.133
0.270
     exchange_trad
```

```
4      1                                                                  0.081
0.388
     f3_ee_cgrdp
5      1                                                                 -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                 -1.970**
0.377
     m3_physatt4
7      3                                                                  1.879**
0.154
8      4                                                                  1.387**
0.158
9      5                                                                 -0.082
0.190
     f3_physatt4
10     3                                                                  1.600**
0.168
11     4                                                                  1.525**
0.169
12     5                                                                  0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                0.078
0.325
14     1.4                                                                0.592
0.328
15     1.5                                                                1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                0.673
0.387
17     1.4                                                                1.114**
0.392
18     1.5                                                                1.591**
0.425
19   _cons                                                                0.105
0.207
   lnalpha
20   _cons                                                               -3.947**
0.782
-------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987
```

```
         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
        b1_1 |         64    1.501345           0   1.501345   1.501345
        v1_1 |         64    .0106843           0   .0106843   .0106843
       se1_1 |         64    .1033651           0   .1033651   .1033651
        b1_2 |         64    .6642442           0   .6642442   .6642442
        v1_2 |         64    .0097194           0   .0097194   .0097194
-------------+---------------------------------------------------------
       se1_2 |         64    .0985868           0   .0985868   .0985868
        b1_3 |         64    .1703256           0   .1703256   .1703256
        v1_3 |         64    .0400251           0   .0400251   .0400251
       se1_3 |         64    .2000627           0   .2000627   .2000627
```

```
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+---------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+---------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+---------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           8           0          8          8
(63 observations deleted)
file ...\temp8.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 9
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00
```

```
-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
```

```
        5 |  .25   .25   .25     0
-----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
----------------------

-----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
-----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                   1.493**
0.085
```

```
     physatt_endog
2      1                                                          0.536**
0.058
     exchange
3      1                                                          0.096
0.175
     f3_ee_cgrdp
4      1                                                         -0.806**
0.279
     m3_ee_cgrdp
5      1                                                         -1.927**
0.358
     m3_physatt4
6      3                                                          1.943**
0.123
7      4                                                          1.415**
0.128
8      5                                                         -0.034
0.162
     f3_physatt4
9      3                                                          1.648**
0.132
10     4                                                          1.605**
0.131
11     5                                                          0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                        0.087
0.292
13     1.4                                                        0.576*
0.292
14     1.5                                                        0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                        0.635
0.366
16     1.4                                                        1.137**
0.368
17     1.5                                                        1.548**
0.403
18   _cons                                                        0.059
0.176
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
```

```
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.899
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.497**
0.086
     physatt_endog
2      1                                                                 0.536**
0.058
     exchange
3      1                                                                 0.051
0.239
     exchange_trad
4      1                                                                 0.097
0.351
     f3_ee_cgrdp
5      1                                                                -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                -1.946**
0.364
     m3_physatt4
7      3                                                                 1.943**
0.123
8      4                                                                 1.417**
0.129
9      5                                                                -0.029
0.163
     f3_physatt4
10     3                                                                 1.649**
0.132
11     4                                                                 1.603**
0.131
12     5                                                                 0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                               0.077
0.295
14     1.4                                                               0.563
0.296
15     1.5                                                               0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
```

```
16     1.3                                                                  0.641
0.366
17     1.4                                                                  1.146**
0.370
18     1.5                                                                  1.556**
0.404
19   _cons                                                                  0.055
0.177
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.501**
0.103
     physatt_endog
2      1                                                                    0.664**
0.099
     exchange
3      1                                                                    0.170
0.200
```

```
     f3_ee_cgrdp
4      1                                                          -0.832**
0.297
     m3_ee_cgrdp
5      1                                                          -1.954**
0.370
     m3_physatt4
6      3                                                           1.879**
0.154
7      4                                                           1.384**
0.158
8      5                                                          -0.087
0.189
     f3_physatt4
9      3                                                           1.599**
0.168
10     4                                                           1.527**
0.168
11     5                                                           0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                         0.087
0.323
13     1.4                                                         0.603
0.324
14     1.5                                                         1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                         0.668
0.386
16     1.4                                                         1.108**
0.391
17     1.5                                                         1.585**
0.424
18   _cons                                                         0.108
0.206
   lnalpha
19   _cons                                                        -3.937**
0.779
------------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
```

```
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
-------------------------------------------------------------------------------
-------
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.504**
0.104
     physatt_endog
2      1                                                                 0.663**
0.099
     exchange
3      1                                                                 0.133
0.270
     exchange_trad
4      1                                                                 0.081
0.388
     f3_ee_cgrdp
5      1                                                                -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                -1.970**
0.377
     m3_physatt4
7      3                                                                 1.879**
0.154
8      4                                                                 1.387**
```

```
0.158
9      5                                                                  -0.082
0.190
     f3_physatt4
10     3                                                                   1.600**
0.168
11     4                                                                   1.525**
0.169
12     5                                                                   0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                 0.078
0.325
14     1.4                                                                 0.592
0.328
15     1.5                                                                 1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                 0.673
0.387
17     1.4                                                                 1.114**
0.392
18     1.5                                                                 1.591**
0.425
19   _cons                                                                 0.105
0.207
   lnalpha
20   _cons                                                                -3.947**
0.782
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
```

```
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+--------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
```

```
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+---------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64           9           0          9          9
(63 observations deleted)
file ...\temp9.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 10
tab before contract

-> tabulation of f3_physatt4

  RECODE of |
 f3_physatt |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         87        5.77        5.77
          3 |        596       39.55       45.32
          4 |        586       38.89       84.21
          5 |        238       15.79      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_physatt4

  RECODE of |
 m3_physatt |
      (W3 - |
Interviewer |
     -rated |
   physical |
attractiven |
       ess) |      Freq.     Percent        Cum.
------------+-----------------------------------
          2 |         85        5.64        5.64
          3 |        777       51.56       57.20
          4 |        521       34.57       91.77
          5 |        124        8.23      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of f3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,097       72.79       72.79
          1 |        410       27.21      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_ee_cgrdp

Clg Grad or |
       More |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,175       77.97       77.97
          1 |        332       22.03      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(32 real changes made)
```

```
----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    1     0
        1 |    0     1
----------------------
physatt_endog
(16 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------
exchange
(12 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0  .375
        1 | .375     0
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |  .25     0   .25   .25
        4 |  .25   .25     0   .25
        5 |  .25   .25   .25     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(6 real changes made)

----------------------
          |Clg Grad or
Clg Grad  |    More
or More   |    0     1
----------+-----------
        0 |    0     0
        1 | .375     0
```

```
----------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0   .25   .25   .25
        3 |    0     0   .25   .25
        4 |    0     0     0   .25
        5 |    0     0     0     0
----------------------------------
poisson, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.044
   LR chi square:
2968.150
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.899
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.493**
0.085
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.096
0.175
     f3_ee_cgrdp
4      1                                                                   -0.806**
0.279
     m3_ee_cgrdp
5      1                                                                   -1.927**
0.358
```

```
     m3_physatt4
6      3                                                                  1.943**
0.123
7      4                                                                  1.415**
0.128
8      5                                                                 -0.034
0.162
     f3_physatt4
9      3                                                                  1.648**
0.132
10     4                                                                  1.605**
0.131
11     5                                                                  0.711**
0.146
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                0.087
0.292
13     1.4                                                                0.576*
0.292
14     1.5                                                                0.988**
0.310
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                0.635
0.366
16     1.4                                                                1.137**
0.368
17     1.5                                                                1.548**
0.403
18   _cons                                                                0.059
0.176
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119    -166.044     18      368.088    406.9479
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
poisson, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Poisson regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-1650.119
   Log likelihood:
-166.006
   LR chi square:
2968.226
   Model degrees of freedom:
   18
```

```
   Pseudo R-squared:
0.899
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.497**
0.086
     physatt_endog
2      1                                                                    0.536**
0.058
     exchange
3      1                                                                    0.051
0.239
     exchange_trad
4      1                                                                    0.097
0.351
     f3_ee_cgrdp
5      1                                                                   -0.783**
0.291
     m3_ee_cgrdp
6      1                                                                   -1.946**
0.364
     m3_physatt4
7      3                                                                    1.943**
0.123
8      4                                                                    1.417**
0.129
9      5                                                                   -0.029
0.163
     f3_physatt4
10     3                                                                    1.649**
0.132
11     4                                                                    1.603**
0.131
12     5                                                                    0.708**
0.147
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                                  0.077
0.295
14     1.4                                                                  0.563
0.296
15     1.5                                                                  0.975**
0.313
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.641
0.366
17     1.4                                                                  1.146**
0.370
18     1.5                                                                  1.556**
0.404
19   _cons                                                                  0.055
0.177
-------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01
```

```
Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -1650.119   -166.0059     19     370.0117    411.0305
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.157
   LR chi square:
186.714
   Model degrees of freedom:
   17
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.501**
0.103
     physatt_endog
2      1                                                                    0.664**
0.099
     exchange
3      1                                                                    0.170
0.200
     f3_ee_cgrdp
4      1                                                                   -0.832**
0.297
     m3_ee_cgrdp
5      1                                                                   -1.954**
0.370
     m3_physatt4
6      3                                                                    1.879**
0.154
7      4                                                                    1.384**
0.158
8      5                                                                   -0.087
```

```
0.189
     f3_physatt4
9      3                                                                  1.599**
0.168
10     4                                                                  1.527**
0.168
11     5                                                                  0.666**
0.182
     f3_ee_cgrdp.f3_physatt4
12     1.3                                                                0.087
0.323
13     1.4                                                                0.603
0.324
14     1.5                                                                1.037**
0.342
     m3_ee_cgrdp.m3_physatt4
15     1.3                                                                0.668
0.386
16     1.4                                                                1.108**
0.391
17     1.5                                                                1.585**
0.424
18   _cons                                                                0.108
0.206
   lnalpha
19   _cons                                                               -3.937**
0.779
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1574     19     366.3147    407.3335
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,19]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5013445   .66424416   .17032559  -.83222023  -1.9542453   1.8789154
1.3837296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.08737574    1.598827   1.5270383   .66597984   .08725489   .60257408
1.0371731

         count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _cons       _cons
y1   .66801256   1.1075304   1.5846064   .10796512  -3.9373283
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
```

```
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
   64
   Initial log likelihood:
-257.514
   Log likelihood:
-164.136
   LR chi square:
186.757
   Model degrees of freedom:
   18
   Pseudo R-squared:
0.363
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.504**
0.104
     physatt_endog
2      1                                                                 0.663**
0.099
     exchange
3      1                                                                 0.133
0.270
     exchange_trad
4      1                                                                 0.081
0.388
     f3_ee_cgrdp
5      1                                                                -0.812**
0.312
     m3_ee_cgrdp
6      1                                                                -1.970**
0.377
     m3_physatt4
7      3                                                                 1.879**
0.154
8      4                                                                 1.387**
0.158
9      5                                                                -0.082
0.190
     f3_physatt4
10     3                                                                 1.600**
0.168
11     4                                                                 1.525**
0.169
12     5                                                                 0.662**
0.183
     f3_ee_cgrdp.f3_physatt4
13     1.3                                                               0.078
```

```
0.325
14     1.4                                                                  0.592
0.328
15     1.5                                                                  1.027**
0.345
     m3_ee_cgrdp.m3_physatt4
16     1.3                                                                  0.673
0.387
17     1.4                                                                  1.114**
0.392
18     1.5                                                                  1.591**
0.425
19   _cons                                                                  0.105
0.207
   lnalpha
20   _cons                                                                 -3.947**
0.782
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |     64   -257.5145   -164.1358     20     368.2716    411.4492
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,20]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.5040866   .66345064   .13267866    .0807587  -.81209141   -1.969907
1.8792987

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   1.3866105  -.08208339   1.5997374   1.5249044   .66171603   .07781888
.59160489

         count:      count:      count:      count:      count:    lnalpha:
         _x_15       _x_16       _x_17       _x_18       _cons       _cons
y1    1.026613   .67253003   1.1144388    1.590696   .10493228  -3.9466623

Contains data from ...\temp_mim.dta
  obs:            64                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:         5,632
--------------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
--------------------------------------------------------------------------------------
-------
```

```
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        64    1.501345           0   1.501345   1.501345
        v1_1 |        64    .0106843           0   .0106843   .0106843
       se1_1 |        64    .1033651           0   .1033651   .1033651
        b1_2 |        64    .6642442           0   .6642442   .6642442
        v1_2 |        64    .0097194           0   .0097194   .0097194
-------------+--------------------------------------------------------
       se1_2 |        64    .0985868           0   .0985868   .0985868
        b1_3 |        64    .1703256           0   .1703256   .1703256
        v1_3 |        64    .0400251           0   .0400251   .0400251
       se1_3 |        64    .2000627           0   .2000627   .2000627
        b2_1 |        64    1.504087           0   1.504087   1.504087
-------------+--------------------------------------------------------
        v2_1 |        64    .0108564           0   .0108564   .0108564
       se2_1 |        64     .104194           0    .104194    .104194
        b2_2 |        64    .6634507           0   .6634507   .6634507
        v2_2 |        64    .0097254           0   .0097254   .0097254
       se2_2 |        64    .0986175           0   .0986175   .0986175
-------------+--------------------------------------------------------
        b2_3 |        64    .1326787           0   .1326787   .1326787
        v2_3 |        64    .0730245           0   .0730245   .0730245
       se2_3 |        64    .2702305           0   .2702305   .2702305
        b2_4 |        64    .0807587           0   .0807587   .0807587
        v2_4 |        64    .1509283           0   .1509283   .1509283
-------------+--------------------------------------------------------
       se2_4 |        64    .3884949           0   .3884949   .3884949
          mj |        64          10           0         10         10
(63 observations deleted)
file ...\temp10.dta saved

. *** see Rubin, D.B. (1987) Multiple Imputation for Nonresponse in Surveys. J Wiley
& Sons
> , NY ***;
. *** also see sites.stat.psu.edu/~jls/mifaq.html#howto ***;
. use "...\temp1", clear ;
```

```
. forvalues i=2/10 { ;
  2. append using "...\temp`i'" ;
  3. } ;

. ** p-values for model without gender-stereotypical term **;
. forvalues j=1/3 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b1_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v1_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b1_`j') ;
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b1_`j' avg_b`j' v1_`j' var_b`j' ;
  8. display "p-value for b1_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        10    1.502104       .0024   1.501345   1.508934
      avg_b1 |        10    1.502104           0   1.502104   1.502104
        v1_1 |        10    .0106886    .0000136   .0106843   .0107273
      var_b1 |        10     .010695           0    .010695    .010695
p-value for b1_1
0

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_2 |        10    .6643782    .0004238   .6642442   .6655842
      avg_b2 |        10    .6643782           0   .6643782   .6643782
        v1_2 |        10    .0097275    .0000257   .0097194   .0098005
      var_b2 |        10    .0097277           0   .0097277   .0097277
p-value for b1_2
1.627e-11

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_3 |        10    .1704294    .0003283   .1703256   .1713636
      avg_b3 |        10    .1704294           0   .1704294   .1704294
        v1_3 |        10    .0400332    .0000255   .0400251   .0401057
      var_b3 |        10    .0400333           0   .0400333   .0400333
p-value for b1_3
.39432919

. drop avg_* wi_* bi_* var_* abv_* ;

. ** p-values for model with gender-stereotypical term **;
. forvalues j=1/4 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b2_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v2_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b2_`j') ;
```

```
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b2_`j' avg_b`j' v2_`j' var_b`j' ;
  8. display "p-value for b2_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_1 |        10    1.504765    .0021459   1.504087   1.510872
      avg_b1 |        10    1.504765           0   1.504765   1.504765
        v2_1 |        10    .0108603    .0000124   .0108564   .0108957
      var_b1 |        10    .0108654           0   .0108654   .0108654
p-value for b2_1
0

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_2 |        10     .663604     .000485   .6634507   .6649842
      avg_b2 |        10     .663604           0    .663604    .663604
        v2_2 |        10    .0097339    .0000268   .0097254   .0098101
      var_b2 |        10    .0097341           0   .0097341   .0097341
p-value for b2_2
1.743e-11

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_3 |        10     .133851    .0037073   .1326787   .1444021
      avg_b3 |        10     .133851           0    .133851    .133851
        v2_3 |        10    .0730559    .0000993   .0730245   .0733384
      var_b3 |        10     .073071           0    .073071    .073071
p-value for b2_3
.62048438

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_4 |        10    .0784442    .0073192   .0576133   .0807587
      avg_b4 |        10    .0784442           0   .0784442   .0784442
        v2_4 |        10    .1509476    .0000612   .1509283   .1511219
      var_b4 |        10    .1510066           0   .1510066   .1510066
p-value for b2_4
.84002166

. * Average BIC for model w/o gender-trad (gender-stereotpyical exchange) term ;
. display (407.3335 + 407.3335 + 407.3335 + 408.0613 + 407.3335 + 407.3335 +
407.3335 + 407
> .3335 + 407.3335 + 407.3335)/10 ;
407.40628

. * Average BIC for model w/ gender-trad term ;
. display (411.4492 + 411.4492 + 411.4492 + 412.1982 + 411.4492 + 411.4492 +
411.4492 + 411
> .4492 + 411.4492 + 411.4492)/10 ;
411.5241

. * Note--lower BIC indicates better fit so this suggests that the model without the
gender
> -trad (gender-stereotpyical exchange) term fits the data better ;
```

```
. *********** Use an alternate level of education **********;
. * based off yrsedu -- current edu, nothing forecast *;
. *** not MIM ***;
. use "...\temp.dta", clear ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. display "tab before contract" ;
tab before contract

. * commented out due to small N in extreme values of yrsedu ;
. *tab1 f3_physatt4 m3_physatt4 m3_yrsedu m3_yrsedu ;
. display "make categorical edu" ;
make categorical edu

. recode m3_yrsedu 0/11=1 12=2 13/15=3 16/25=4, gen(m3_edu4) ;
(1506 differences between m3_yrsedu and m3_edu4)

. recode f3_yrsedu 0/11=1 12=2 13/15=3 16/25=4, gen(f3_edu4) ;
(1507 differences between f3_yrsedu and f3_edu4)

. tab1 f3_edu4 m3_edu4 ;

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.06       19.06
          2 |        586       38.91       57.97
          3 |        466       30.94       88.91
          4 |        167       11.09      100.00
------------+-----------------------------------
      Total |      1,506      100.00

. * commented out due to small N ;
. *tab f3_edu4 m3_edu4 ;
. contract m3_physatt4 f3_physatt4 f3_edu4 m3_edu4, freq(count) zero ;

. * commented out due to small N ;
. *bysort f3_edu4 m3_edu4: table f3_physatt4 m3_physatt4 , contents(sum count) ;
. display "edu_endog" ;
edu_endog

. gen edu_endog = 0 ;

. replace edu_endog = 1 if m3_edu4 == f3_edu4 ;
(64 real changes made)
```

```
.  table m3_edu4 f3_edu4, contents(mean edu_endog) ;

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------

. display "physatt_endog" ;
physatt_endog

. gen physatt_endog = 0 ;

. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
(80 real changes made)

.  table m3_physatt4 f3_physatt4 , contents(mean physatt_endog) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

. table m3_edu4 f3_edu4, contents(mean edu_endog mean physatt_endog) ;

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------
```

```
. table m3_physatt4 f3_physatt4 , contents(mean edu_endog mean physatt_endog) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |   .2    .2    .2    .2
          |    1     0     0     0
          |
        3 |   .2    .2    .2    .2
          |    0     1     0     0
          |
        4 |   .2    .2    .2    .2
          |    0     0     1     0
          |
        5 |   .2    .2    .2    .2
          |    0     0     0     1
----------------------------------

. display "exchange" ;
exchange

. gen exchange = 0 ;

. replace exchange = 1 if ((f3_edu4 > m3_edu4) & (f3_physatt4 < m3_physatt4 ))
>                       | ((f3_edu4 < m3_edu4) & (f3_physatt4 > m3_physatt4 )) ;
(96 real changes made)

. table m3_edu4 f3_edu4, contents(mean exchange) ;

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

. table m3_physatt4 f3_physatt4 , contents(mean exchange) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0    .5    .5    .5
```

```
        3 |   .3     0    .5    .5
        4 |   .3    .3     0    .5
        5 |   .3    .3    .3     0
----------------------------------

. display "exchange_trad--that is, gender-stereotypical exchange (trad=traditional)"
;
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)

. gen exchange_trad = 0 ;

. replace exchange_trad = 1 if ((f3_edu4 < m3_edu4) & (f3_physatt4 > m3_physatt4 ))
;
(60 real changes made)

. table m3_edu4 f3_edu4, contents(mean exchange_trad) ;

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

. table m3_physatt4 f3_physatt4 , contents(mean exchange_trad) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0    .5    .5    .5
        3 |    0     0    .5    .5
        4 |    0     0     0    .5
        5 |    0     0     0     0
----------------------------------

. * model with gender-symmetric exchange term but without gender-stereotypical
exchange ter
> m ;
. desmat: nbreg count edu_endog physatt_endog exchange f3_edu4 m3_edu4 m3_physatt4
f3_physa
> tt4 f3_edu4*f3_physatt4 m3_edu4*m3_physatt4 ;
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
```

```
   Number of observations:
  256
   Initial log likelihood:
-685.484
   Log likelihood:
-512.106
   LR chi square:
346.755
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.283**
0.111
     physatt_endog
2      1                                                                  0.831**
0.113
     exchange
3      1                                                                  0.524**
0.152
     f3_edu4
4      2                                                                  0.345
0.344
5      3                                                                 -0.403
0.380
6      4                                                                 -0.830
0.438
     m3_edu4
7      2                                                                 -0.483
0.320
8      3                                                                 -1.080**
0.357
9      4                                                                 -2.063**
0.484
     m3_physatt4
10     3                                                                  1.036**
0.257
11     4                                                                  0.475
0.272
12     5                                                                 -1.168**
0.358
     f3_physatt4
13     3                                                                  1.077**
0.311
14     4                                                                  0.905**
0.316
15     5                                                                  0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                0.498
0.413
```

```
17     2.4                                                                  0.628
0.417
18     2.5                                                                  0.350
0.453
19     3.3                                                                  1.182**
0.445
20     3.4                                                                  1.387**
0.448
21     3.5                                                                  1.655**
0.482
22     4.3                                                                  0.498
0.504
23     4.4                                                                  1.194*
0.506
24     4.5                                                                  1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                  1.262**
0.377
26     2.4                                                                  1.196**
0.391
27     2.5                                                                  1.197*
0.478
28     3.3                                                                  1.396**
0.408
29     3.4                                                                  1.612**
0.424
30     3.5                                                                  2.007**
0.506
31     4.3                                                                  1.097*
0.531
32     4.4                                                                  1.840**
0.543
33     4.5                                                                  2.708**
0.622
34   _cons                                                                 -0.797*
0.317
   lnalpha
35   _cons                                                                 -1.676**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.4839   -512.1063     35     1094.213    1218.294
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. * model with gender-symmetric exchange term and gender-stereotypical exchange term
;
. desmat: nbreg count edu_endog physatt_endog exchange exchange_trad f3_edu4 m3_edu4
m3_phy
> satt4 f3_physatt4 f3_edu4*f3_physatt4 m3_edu4*m3_physatt4 ;
------------------------------------------------------------------------------------
-------
```

```
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.484
   Log likelihood:
-511.435
   LR chi square:
348.097
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.288**
0.111
     physatt_endog
2      1                                                                 0.826**
0.113
     exchange
3      1                                                                 0.342
0.219
     exchange_trad
4      1                                                                 0.347
0.300
     f3_edu4
5      2                                                                 0.384
0.345
6      3                                                                -0.317
0.387
7      4                                                                -0.700
0.450
     m3_edu4
8      2                                                                -0.512
0.320
9      3                                                                -1.152**
0.362
10     4                                                                -2.182**
0.495
     m3_physatt4
11     3                                                                 1.060**
0.257
12     4                                                                 0.539
0.277
13     5                                                                -1.057**
0.369
```

```
     f3_physatt4
14     3                                                                1.067**
0.311
15     4                                                                0.853**
0.319
16     5                                                                0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                              0.484
0.412
18     2.4                                                              0.614
0.417
19     2.5                                                              0.356
0.453
20     3.3                                                              1.155**
0.444
21     3.4                                                              1.358**
0.448
22     3.5                                                              1.651**
0.481
23     4.3                                                              0.449
0.504
24     4.4                                                              1.156*
0.506
25     4.5                                                              1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                              1.260**
0.376
27     2.4                                                              1.186**
0.389
28     2.5                                                              1.173*
0.477
29     3.3                                                              1.399**
0.407
30     3.4                                                              1.610**
0.423
31     3.5                                                              1.989**
0.505
32     4.3                                                              1.124*
0.532
33     4.4                                                              1.858**
0.543
34     4.5                                                              2.707**
0.621
35   _cons                                                             -0.801*
0.317
   lnalpha
36   _cons                                                             -1.691**
0.261
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC          BIC
-------------+---------------------------------------------------------------
           . |    256   -685.4839   -511.4355     36     1094.871    1222.497
```

```
------------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. *** MIM ***;
. forvalues i = 1/10 { ;
  2. use "...\temp_mim.dta", clear ;
  3. keep if _mj == `i' ;
  4. display "imputation is `i'" ;
  5. display "tab before contract" ;
  6. * commented out due to small N in extreme values of edu ;
. *tab1 f3_physatt4 m3_physatt4 m3_yrsedu m3_yrsedu ;
. display "make categorical edu" ;
  7. recode m3_yrsedu 0/11=1 12=2 13/15=3 16/25=4, gen(m3_edu4) ;
  8. recode f3_yrsedu 0/11=1 12=2 13/15=3 16/25=4, gen(f3_edu4) ;
  9. tab1 f3_edu4 m3_edu4 ;
 10. contract m3_physatt4 f3_physatt4 f3_edu4 m3_edu4, freq(count) zero ;
 11. display "edu_endog" ;
 12. gen edu_endog = 0 ;
 13. replace edu_endog = 1 if m3_edu4 == f3_edu4 ;
 14.  table m3_edu4 f3_edu4, contents(mean edu_endog) ;
 15. display "physatt_endog" ;
 16. gen physatt_endog = 0 ;
 17. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
 18.  table m3_physatt4 f3_physatt4 , contents(mean physatt_endog) ;
 19. table m3_edu4 f3_edu4, contents(mean edu_endog mean physatt_endog) ;
 20. table m3_physatt4 f3_physatt4 , contents(mean edu_endog mean physatt_endog) ;
 21. display "exchange" ;
 22. gen exchange = 0 ;
 23. replace exchange = 1 if ((f3_edu4 > m3_edu4) & (f3_physatt4 < m3_physatt4 ))
>                       | ((f3_edu4 < m3_edu4) & (f3_physatt4 > m3_physatt4 )) ;
 24. table m3_edu4 f3_edu4, contents(mean exchange) ;
 25. table m3_physatt4 f3_physatt4 , contents(mean exchange) ;
 26. display "exchange_trad--that is, gender-stereotypical exchange
(trad=traditional)" ;
 27. gen exchange_trad = 0 ;
 28. replace exchange_trad = 1 if ((f3_edu4 < m3_edu4) & (f3_physatt4 > m3_physatt4
)) ;
 29. table m3_edu4 f3_edu4, contents(mean exchange_trad) ;
 30. table m3_physatt4 f3_physatt4 , contents(mean exchange_trad) ;
 31. display "nbreg, without gender-stereotypical exchange term (only
gender-symmetric exch
> ange)" ;
 32. desmat: nbreg count edu_endog physatt_endog exchange f3_edu4 m3_edu4
m3_physatt4 f3_ph
> ysatt4 f3_edu4*f3_physatt4 m3_edu4*m3_physatt4 ;
 33.  estat ic ;
 34. * this is the coef matrix *;
. matrix b1=e(b) ;
 35.  matrix list b1 ;
 36. matrix v1=e(V) ;
 37. forvalues j=1/3 { ;
 38. gen b1_`j'=b1[1,`j'] ;
 39. gen v1_`j'=v1[`j',`j'] ;
 40. gen se1_`j'=sqrt(v1_`j');
 41. } ;
 42. display "nbreg, with gender-stereotypical exchange term" ;
 43. desmat: nbreg count edu_endog physatt_endog exchange exchange_trad f3_edu4
m3_edu4 m3_
> physatt4 f3_physatt4 f3_edu4*f3_physatt4 m3_edu4*m3_physatt4 ;
 44.  estat ic ;
 45. * this is the coef matrix *;
. matrix b2=e(b) ;
 46.  matrix list b2 ;
```

```
 47. matrix v2=e(V) ;
 48. forvalues j=1/4 { ;
 49. gen b2_`j'=b2[1,`j'] ;
 50. gen v2_`j'=v2[`j',`j'] ;
 51. gen se2_`j'=sqrt(v2_`j');
 52. } ;
 53. drop _* ;
 54. gen mj=`i' ;
 55. keep mj b* v* se* ;
 56. des ;
 57.  sum ;
 58. sample 1, count ;
 59.  save "...\temp`i'", replace ;
 60. };
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 1
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        288       19.11       19.11
          2 |        586       38.89       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
```

```
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
exchange
```

```
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
--------------------------------------------------------------------------------
```

```
-------
   Negative binomial regression
-------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.569
   Log likelihood:
-512.216
   LR chi square:
346.707
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.283**
0.111
     physatt_endog
2      1                                                                    0.833**
0.113
     exchange
3      1                                                                    0.524**
0.152
     f3_edu4
4      2                                                                    0.345
0.344
5      3                                                                   -0.403
0.381
6      4                                                                   -0.829
0.438
     m3_edu4
7      2                                                                   -0.482
0.320
8      3                                                                   -1.080**
0.358
9      4                                                                   -2.063**
0.484
     m3_physatt4
10     3                                                                    1.040**
0.257
11     4                                                                    0.475
0.272
12     5                                                                   -1.168**
0.358
     f3_physatt4
13     3                                                                    1.076**
```

```
0.312
14     4                                                                  0.905**
0.316
15     5                                                                  0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                0.503
0.413
17     2.4                                                                0.628
0.418
18     2.5                                                                0.350
0.454
19     3.3                                                                1.183**
0.445
20     3.4                                                                1.387**
0.449
21     3.5                                                                1.655**
0.483
22     4.3                                                                0.498
0.505
23     4.4                                                                1.194*
0.507
24     4.5                                                                1.379*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                1.258**
0.378
26     2.4                                                                1.196**
0.391
27     2.5                                                                1.197*
0.479
28     3.3                                                                1.392**
0.409
29     3.4                                                                1.611**
0.425
30     3.5                                                                2.007**
0.507
31     4.3                                                                1.093*
0.532
32     4.4                                                                1.840**
0.543
33     4.5                                                                2.709**
0.622
34   _cons                                                               -0.798*
0.318
   lnalpha
35   _cons                                                               -1.672**
0.259
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5694   -512.2159     35     1094.432    1218.513
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
```

```
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2829572   .83290123   .52424857   .34519725  -.40286344  -.82925756
-.48247281

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1    -1.07963  -2.0627806    1.040155   .47477722  -1.1681575   1.0762137
.90472578

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15106378   .50317863   .62805925   .34960612   1.1832173   1.3868825
1.6548281

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49842157    1.194158   1.3793146   1.2576792   1.1961677   1.1966964
1.3915325

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6114099   2.0073525   1.0930667   1.8397262   2.7087357  -.79799094
-1.6716091
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.569
   Log likelihood:
-511.540
   LR chi square:
348.059
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
```

```
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.288**
0.111
     physatt_endog
2      1                                                                 0.827**
0.113
     exchange
3      1                                                                 0.341
0.219
     exchange_trad
4      1                                                                 0.349
0.300
     f3_edu4
5      2                                                                 0.384
0.346
6      3                                                                -0.316
0.387
7      4                                                                -0.699
0.450
     m3_edu4
8      2                                                                -0.512
0.320
9      3                                                                -1.152**
0.362
10     4                                                                -2.182**
0.496
     m3_physatt4
11     3                                                                 1.064**
0.257
12     4                                                                 0.539
0.277
13     5                                                                -1.057**
0.369
     f3_physatt4
14     3                                                                 1.066**
0.311
15     4                                                                 0.852**
0.319
16     5                                                                 0.050
0.361
     f3_edu4.f3_physatt4
17     2.3                                                               0.489
0.412
18     2.4                                                               0.614
0.417
19     2.5                                                               0.356
0.453
20     3.3                                                               1.155**
0.445
21     3.4                                                               1.358**
0.448
22     3.5                                                               1.651**
0.482
23     4.3                                                               0.449
0.504
24     4.4                                                               1.156*
0.506
25     4.5                                                               1.367*
0.549
```

```
     m3_edu4.m3_physatt4
26     2.3                                                                  1.256**
0.376
27     2.4                                                                  1.186**
0.390
28     2.5                                                                  1.173*
0.478
29     3.3                                                                  1.394**
0.407
30     3.4                                                                  1.609**
0.423
31     3.5                                                                  1.989**
0.506
32     4.3                                                                  1.119*
0.532
33     4.4                                                                  1.858**
0.544
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.802*
0.317
   lnalpha
36   _cons                                                                 -1.687**
0.261
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5694   -511.5399     36      1095.08    1222.706
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2875974   .82739929   .34092984   .34911278   .38407511  -.31640246
-.69943947

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51227609  -1.1521845  -2.1823243   1.0637149   .53895537  -1.0567643
1.0661988

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85232507   .05034964    .4891276   .61437552   .35583207   1.1552494
1.3580364

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
```

```
_x_28
y1   1.6511032   .44893449   1.1555967   1.3674395   1.2564821   1.1864184
1.1728341

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3940917   1.6094716   1.9888399    1.119352   1.8578118   2.7072763
-.80168812

       lnalpha:
         _cons
y1   -1.686703

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.282957           0   1.282957   1.282957
        v1_1 |       256     .012336           0    .012336    .012336
       se1_1 |       256    .1110675           0   .1110675   .1110675
        b1_2 |       256    .8329012           0   .8329012   .8329012
        v1_2 |       256    .0128223           0   .0128223   .0128223
-------------+--------------------------------------------------------
```

```
       se1_2 |       256    .1132356           0   .1132356   .1132356
        b1_3 |       256    .5242485           0   .5242485   .5242485
        v1_3 |       256    .0232329           0   .0232329   .0232329
       se1_3 |       256    .1524233           0   .1524233   .1524233
        b2_1 |       256    1.287597           0   1.287597   1.287597
-------------+---------------------------------------------------------
        v2_1 |       256    .0122443           0   .0122443   .0122443
       se2_1 |       256     .110654           0    .110654    .110654
        b2_2 |       256    .8273993           0   .8273993   .8273993
        v2_2 |       256    .0127372           0   .0127372   .0127372
       se2_2 |       256     .112859           0    .112859    .112859
-------------+---------------------------------------------------------
        b2_3 |       256    .3409298           0   .3409298   .3409298
        v2_3 |       256    .0479982           0   .0479982   .0479982
       se2_3 |       256    .2190848           0   .2190848   .2190848
        b2_4 |       256    .3491128           0   .3491128   .3491128
        v2_4 |       256    .0900746           0   .0900746   .0900746
-------------+---------------------------------------------------------
       se2_4 |       256    .3001244           0   .3001244   .3001244
          mj |       256           1           0          1          1
(255 observations deleted)
file ...\temp1.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 2
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
```

```
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
```

```
           |
         4 |  .25   .25   .25   .25
           |    0     0     1     0
           |
         5 |  .25   .25   .25   .25
           |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
```

```
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
-----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.284**
0.111
     physatt_endog
2      1                                                                     0.831**
0.113
     exchange
3      1                                                                     0.524**
0.152
     f3_edu4
4      2                                                                     0.345
0.343
5      3                                                                    -0.403
0.380
6      4                                                                    -0.830
0.438
     m3_edu4
7      2                                                                    -0.483
0.320
8      3                                                                    -1.080**
0.357
9      4                                                                    -2.063**
0.484
     m3_physatt4
```

```
10     3                                                                  1.036**
0.257
11     4                                                                  0.475
0.272
12     5                                                                 -1.168**
0.358
     f3_physatt4
13     3                                                                  1.077**
0.311
14     4                                                                  0.905**
0.316
15     5                                                                  0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                0.499
0.413
17     2.4                                                                0.628
0.417
18     2.5                                                                0.350
0.453
19     3.3                                                                1.182**
0.445
20     3.4                                                                1.387**
0.448
21     3.5                                                                1.655**
0.482
22     4.3                                                                0.498
0.504
23     4.4                                                                1.194*
0.506
24     4.5                                                                1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                1.262**
0.377
26     2.4                                                                1.196**
0.391
27     2.5                                                                1.197*
0.478
28     3.3                                                                1.396**
0.408
29     3.4                                                                1.612**
0.424
30     3.5                                                                2.007**
0.506
31     4.3                                                                1.097*
0.531
32     4.4                                                                1.840**
0.543
33     4.5                                                                2.708**
0.622
34   _cons                                                               -0.797*
0.317
   lnalpha
35   _cons                                                               -1.678**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion
```

```
-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
   34
   Pseudo R-squared:
```

```
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.288**
0.110
     physatt_endog
2      1                                                                    0.826**
0.113
     exchange
3      1                                                                    0.342
0.219
     exchange_trad
4      1                                                                    0.347
0.300
     f3_edu4
5      2                                                                    0.383
0.345
6      3                                                                   -0.317
0.386
7      4                                                                   -0.701
0.450
     m3_edu4
8      2                                                                   -0.512
0.319
9      3                                                                   -1.152**
0.361
10     4                                                                   -2.182**
0.495
     m3_physatt4
11     3                                                                    1.060**
0.257
12     4                                                                    0.539
0.276
13     5                                                                   -1.057**
0.369
     f3_physatt4
14     3                                                                    1.067**
0.311
15     4                                                                    0.853**
0.319
16     5                                                                    0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                                  0.485
0.412
18     2.4                                                                  0.614
0.417
19     2.5                                                                  0.356
0.453
20     3.3                                                                  1.154**
0.444
21     3.4                                                                  1.358**
0.448
```

```
22     3.5                                                                  1.651**
0.481
23     4.3                                                                  0.449
0.504
24     4.4                                                                  1.156*
0.505
25     4.5                                                                  1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                                  1.261**
0.376
27     2.4                                                                  1.187**
0.389
28     2.5                                                                  1.173*
0.477
29     3.3                                                                  1.399**
0.407
30     3.4                                                                  1.610**
0.423
31     3.5                                                                  1.989**
0.505
32     4.3                                                                  1.124*
0.532
33     4.4                                                                  1.858**
0.543
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.801*
0.317
   lnalpha
36   _cons                                                                 -1.693**
0.262
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           2           0          2          2
(255 observations deleted)
file ...\temp2.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 3
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
```

```
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
```

```
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |  .25    .25    .25    .25
          |     1      0      0      0
          |
        3 |  .25    .25    .25    .25
          |     0      1      0      0
          |
        4 |  .25    .25    .25    .25
          |     0      0      1      0
          |
        5 |  .25    .25    .25    .25
          |     0      0      0      1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |     - Years of Edu)
Edu)      |     1      2      3      4
----------+----------------------
        1 |     0   .375   .375   .375
        2 |  .375      0   .375   .375
        3 |  .375   .375      0   .375
        4 |  .375   .375   .375      0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     0   .375   .375   .375
        3 |  .375      0   .375   .375
        4 |  .375   .375      0   .375
        5 |  .375   .375   .375      0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |     - Years of Edu)
Edu)      |     1      2      3      4
----------+----------------------
        1 |     0      0      0      0
        2 |  .375      0      0      0
        3 |  .375   .375      0      0
        4 |  .375   .375   .375      0
----------------------------------

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
-----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.284**
0.111
     physatt_endog
2      1                                                                    0.831**
0.113
     exchange
3      1                                                                    0.524**
0.152
     f3_edu4
4      2                                                                    0.345
0.343
5      3                                                                   -0.403
0.380
6      4                                                                   -0.830
0.438
```

```
     m3_edu4
7      2                                                          -0.483
0.320
8      3                                                          -1.080**
0.357
9      4                                                          -2.063**
0.484
     m3_physatt4
10     3                                                           1.036**
0.257
11     4                                                           0.475
0.272
12     5                                                          -1.168**
0.358
     f3_physatt4
13     3                                                           1.077**
0.311
14     4                                                           0.905**
0.316
15     5                                                           0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                         0.499
0.413
17     2.4                                                         0.628
0.417
18     2.5                                                         0.350
0.453
19     3.3                                                         1.182**
0.445
20     3.4                                                         1.387**
0.448
21     3.5                                                         1.655**
0.482
22     4.3                                                         0.498
0.504
23     4.4                                                         1.194*
0.506
24     4.5                                                         1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                         1.262**
0.377
26     2.4                                                         1.196**
0.391
27     2.5                                                         1.197*
0.478
28     3.3                                                         1.396**
0.408
29     3.4                                                         1.612**
0.424
30     3.5                                                         2.007**
0.506
31     4.3                                                         1.097*
0.531
32     4.4                                                         1.840**
0.543
33     4.5                                                         2.708**
0.622
34   _cons                                                        -0.797*
0.317
   lnalpha
35   _cons                                                        -1.678**
```

```
0.260
-------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
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               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
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-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
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y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
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-------
   Negative binomial regression
-------------------------------------------------------------------------------
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   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
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```
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   Log likelihood:
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   LR chi square:
348.284
   Model degrees of freedom:
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0.254
   Dispersion:
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-------
nr Effect                                                                  Coeff
 s.e.
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   count
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0.110
     physatt_endog
2      1                                                                    0.826**
0.113
     exchange
3      1                                                                    0.342
0.219
     exchange_trad
4      1                                                                    0.347
0.300
     f3_edu4
5      2                                                                    0.383
0.345
6      3                                                                   -0.317
0.386
7      4                                                                   -0.701
0.450
     m3_edu4
8      2                                                                   -0.512
0.319
9      3                                                                   -1.152**
0.361
10     4                                                                   -2.182**
0.495
     m3_physatt4
11     3                                                                    1.060**
0.257
12     4                                                                    0.539
0.276
13     5                                                                   -1.057**
0.369
     f3_physatt4
14     3                                                                    1.067**
0.311
15     4                                                                    0.853**
0.319
16     5                                                                    0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                                  0.485
0.412
```

```
18     2.4                                                                  0.614
0.417
19     2.5                                                                  0.356
0.453
20     3.3                                                                  1.154**
0.444
21     3.4                                                                  1.358**
0.448
22     3.5                                                                  1.651**
0.481
23     4.3                                                                  0.449
0.504
24     4.4                                                                  1.156*
0.505
25     4.5                                                                  1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                                  1.261**
0.376
27     2.4                                                                  1.187**
0.389
28     2.5                                                                  1.173*
0.477
29     3.3                                                                  1.399**
0.407
30     3.4                                                                  1.610**
0.423
31     3.5                                                                  1.989**
0.505
32     4.3                                                                  1.124*
0.532
33     4.4                                                                  1.858**
0.543
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.801*
0.317
   lnalpha
36   _cons                                                                 -1.693**
0.262
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
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           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
```

```
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
```

```
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           3           0          3          3
(255 observations deleted)
file ...\temp3.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 4
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
```

```
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------
```

```
----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
```

```
----------+-----------------------
        1 |     0     0     0     0
        2 |  .375     0     0     0
        3 |  .375  .375     0     0
        4 |  .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
        2 |     0  .375  .375  .375
        3 |     0     0  .375  .375
        4 |     0     0     0  .375
        5 |     0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                               1.284**
0.111
     physatt_endog
2      1                                                               0.831**
0.113
     exchange
3      1                                                               0.524**
```

```
0.152
     f3_edu4
4      2                                                                  0.345
0.343
5      3                                                                 -0.403
0.380
6      4                                                                 -0.830
0.438
     m3_edu4
7      2                                                                 -0.483
0.320
8      3                                                                 -1.080**
0.357
9      4                                                                 -2.063**
0.484
     m3_physatt4
10     3                                                                  1.036**
0.257
11     4                                                                  0.475
0.272
12     5                                                                 -1.168**
0.358
     f3_physatt4
13     3                                                                  1.077**
0.311
14     4                                                                  0.905**
0.316
15     5                                                                  0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                0.499
0.413
17     2.4                                                                0.628
0.417
18     2.5                                                                0.350
0.453
19     3.3                                                                1.182**
0.445
20     3.4                                                                1.387**
0.448
21     3.5                                                                1.655**
0.482
22     4.3                                                                0.498
0.504
23     4.4                                                                1.194*
0.506
24     4.5                                                                1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                1.262**
0.377
26     2.4                                                                1.196**
0.391
27     2.5                                                                1.197*
0.478
28     3.3                                                                1.396**
0.408
29     3.4                                                                1.612**
0.424
30     3.5                                                                2.007**
0.506
31     4.3                                                                1.097*
0.531
```

```
32     4.4                                                                  1.840**
0.543
33     4.5                                                                  2.708**
0.622
34   _cons                                                                 -0.797*
0.317
   lnalpha
35   _cons                                                                 -1.678**
0.260
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------
```

```
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.288**
0.110
     physatt_endog
2      1                                                                    0.826**
0.113
     exchange
3      1                                                                    0.342
0.219
     exchange_trad
4      1                                                                    0.347
0.300
     f3_edu4
5      2                                                                    0.383
0.345
6      3                                                                   -0.317
0.386
7      4                                                                   -0.701
0.450
     m3_edu4
8      2                                                                   -0.512
0.319
9      3                                                                   -1.152**
0.361
10     4                                                                   -2.182**
0.495
     m3_physatt4
11     3                                                                    1.060**
0.257
12     4                                                                    0.539
0.276
13     5                                                                   -1.057**
0.369
     f3_physatt4
14     3                                                                    1.067**
```

```
0.311
15     4                                                                0.853**
0.319
16     5                                                                0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                              0.485
0.412
18     2.4                                                              0.614
0.417
19     2.5                                                              0.356
0.453
20     3.3                                                              1.154**
0.444
21     3.4                                                              1.358**
0.448
22     3.5                                                              1.651**
0.481
23     4.3                                                              0.449
0.504
24     4.4                                                              1.156*
0.505
25     4.5                                                              1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                              1.261**
0.376
27     2.4                                                              1.187**
0.389
28     2.5                                                              1.173*
0.477
29     3.3                                                              1.399**
0.407
30     3.4                                                              1.610**
0.423
31     3.5                                                              1.989**
0.505
32     4.3                                                              1.124*
0.532
33     4.4                                                              1.858**
0.543
34     4.5                                                              2.707**
0.621
35   _cons                                                             -0.801*
0.317
   lnalpha
36   _cons                                                             -1.693**
0.262
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
```

```
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
```

```
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           4           0          4          4
(255 observations deleted)
file ...\temp4.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 5
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
```

```
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        586       38.89       57.93
          3 |        467       30.99       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
```

```
           |  .25   .25   .25   .25
           |
         3 |    0     0     1     0
           |  .25   .25   .25   .25
           |
         4 |    0     0     0     1
           |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
         2 |  .25   .25   .25   .25
           |    1     0     0     0
           |
         3 |  .25   .25   .25   .25
           |    0     1     0     0
           |
         4 |  .25   .25   .25   .25
           |    0     0     1     0
           |
         5 |  .25   .25   .25   .25
           |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
         1 |    0  .375  .375  .375
         2 | .375     0  .375  .375
         3 | .375  .375     0  .375
         4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
         2 |    0  .375  .375  .375
         3 | .375     0  .375  .375
         4 | .375  .375     0  .375
         5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
```

```
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.574
   Log likelihood:
-512.130
   LR chi square:
346.887
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
```

```
     edu_endog
1      1                                                          1.283**
0.111
     physatt_endog
2      1                                                          0.832**
0.113
     exchange
3      1                                                          0.524**
0.152
     f3_edu4
4      2                                                          0.345
0.344
5      3                                                         -0.403
0.380
6      4                                                         -0.830
0.438
     m3_edu4
7      2                                                         -0.483
0.320
8      3                                                         -1.080**
0.357
9      4                                                         -2.062**
0.484
     m3_physatt4
10     3                                                          1.036**
0.257
11     4                                                          0.475
0.272
12     5                                                         -1.167**
0.358
     f3_physatt4
13     3                                                          1.077**
0.311
14     4                                                          0.905**
0.316
15     5                                                          0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                        0.502
0.413
17     2.4                                                        0.627
0.417
18     2.5                                                        0.350
0.453
19     3.3                                                        1.183**
0.445
20     3.4                                                        1.387**
0.448
21     3.5                                                        1.655**
0.482
22     4.3                                                        0.498
0.504
23     4.4                                                        1.194*
0.506
24     4.5                                                        1.379*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                        1.262**
0.377
26     2.4                                                        1.196**
0.391
27     2.5                                                        1.197*
0.478
```

```
28     3.3                                                                  1.399**
0.408
29     3.4                                                                  1.611**
0.424
30     3.5                                                                  2.007**
0.506
31     4.3                                                                  1.097*
0.531
32     4.4                                                                  1.839**
0.543
33     4.5                                                                  2.708**
0.622
34   _cons                                                                 -0.798*
0.317
   lnalpha
35   _cons                                                                 -1.676**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5738   -512.1301     35      1094.26    1218.341
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2827412   .83218187   .52350522   .34505288  -.40337586  -.82967449
-.48263618

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0795032  -2.0622459   1.0359754   .47516535  -1.1674934   1.0767838
.90514451

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1    .1511046   .50161402   .62749077   .34950081   1.1827391   1.3868294
1.6549395

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49754627   1.1938216   1.3792879   1.2620773   1.1960904   1.1965955
1.3992489

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
```

```
_cons
y1    1.611281   2.0070025   1.0973969   1.8394576   2.7078713  -.79756439
-1.6760896
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.574
   Log likelihood:
-511.466
   LR chi square:
348.216
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                1.287**
0.111
     physatt_endog
2      1                                                                0.827**
0.113
     exchange
3      1                                                                0.342
0.219
     exchange_trad
4      1                                                                0.346
0.300
     f3_edu4
5      2                                                                0.384
0.345
6      3                                                               -0.318
0.387
7      4                                                               -0.701
0.450
     m3_edu4
8      2                                                               -0.512
0.320
9      3                                                               -1.151**
0.362
10     4                                                               -2.181**
0.495
     m3_physatt4
```

```
11     3                                                                 1.059**
0.257
12     4                                                                 0.539
0.277
13     5                                                                -1.057**
0.369
     f3_physatt4
14     3                                                                 1.067**
0.311
15     4                                                                 0.853**
0.319
16     5                                                                 0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                               0.488
0.412
18     2.4                                                               0.614
0.417
19     2.5                                                               0.356
0.453
20     3.3                                                               1.155**
0.444
21     3.4                                                               1.358**
0.448
22     3.5                                                               1.651**
0.481
23     4.3                                                               0.448
0.504
24     4.4                                                               1.155*
0.506
25     4.5                                                               1.367*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                               1.261**
0.376
27     2.4                                                               1.186**
0.389
28     2.5                                                               1.173*
0.477
29     3.3                                                               1.402**
0.407
30     3.4                                                               1.609**
0.423
31     3.5                                                               1.989**
0.505
32     4.3                                                               1.123*
0.532
33     4.4                                                               1.857**
0.543
34     4.5                                                               2.706**
0.621
35   _cons                                                              -0.801*
0.317
   lnalpha
36   _cons                                                              -1.691**
0.261
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion
```

```
-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5738   -511.4658     36     1094.932    1222.558
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2873107    .8268032   .34193972    .3457199   .38352815  -.31777085
-.70102654

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51211458  -1.1512984  -2.1805974   1.0592802   .53867312  -1.0572414
1.0668479

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85324962   .05140803   .48795798   .61399992   .35567482   1.1550744
1.3582492

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6512397   .44845604    1.155493   1.3673841   1.2608592   1.1864256
1.1729465

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.4018606    1.609341   1.9886284    1.123409   1.8573869   2.7064469
-.80122762

       lnalpha:
         _cons
y1  -1.6907414

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
```

```
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.282741           0   1.282741   1.282741
        v1_1 |       256    .0123045           0   .0123045   .0123045
       se1_1 |       256    .1109257           0   .1109257   .1109257
        b1_2 |       256    .8321819           0   .8321819   .8321819
        v1_2 |       256    .0127933           0   .0127933   .0127933
-------------+--------------------------------------------------------
       se1_2 |       256    .1131075           0   .1131075   .1131075
        b1_3 |       256    .5235052           0   .5235052   .5235052
        v1_3 |       256    .0231876           0   .0231876   .0231876
       se1_3 |       256    .1522747           0   .1522747   .1522747
        b2_1 |       256    1.287311           0   1.287311   1.287311
-------------+--------------------------------------------------------
        v2_1 |       256    .0122162           0   .0122162   .0122162
       se2_1 |       256    .1105269           0   .1105269   .1105269
        b2_2 |       256    .8268032           0   .8268032   .8268032
        v2_2 |       256     .012711           0    .012711    .012711
       se2_2 |       256    .1127428           0   .1127428   .1127428
-------------+--------------------------------------------------------
        b2_3 |       256    .3419397           0   .3419397   .3419397
        v2_3 |       256    .0479179           0   .0479179   .0479179
       se2_3 |       256    .2189016           0   .2189016   .2189016
        b2_4 |       256    .3457199           0   .3457199   .3457199
        v2_4 |       256    .0899082           0   .0899082   .0899082
-------------+--------------------------------------------------------
       se2_4 |       256    .2998469           0   .2998469   .2998469
          mj |       256           5           0          5          5
(255 observations deleted)
file ...\temp5.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 6
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4
```

```
  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
```

```
(W3 -      |RECODE of f3_yrsedu (W3
Years of   |    - Years of Edu)
Edu)       |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -      |RECODE of f3_yrsedu (W3
Years of   |    - Years of Edu)
Edu)       |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
```

```
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
```

```
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                   1.284**
0.111
     physatt_endog
2      1                                                                   0.831**
0.113
     exchange
3      1                                                                   0.524**
0.152
     f3_edu4
4      2                                                                   0.345
0.343
5      3                                                                  -0.403
0.380
6      4                                                                  -0.830
0.438
     m3_edu4
7      2                                                                  -0.483
0.320
8      3                                                                  -1.080**
0.357
9      4                                                                  -2.063**
0.484
     m3_physatt4
10     3                                                                   1.036**
0.257
11     4                                                                   0.475
0.272
12     5                                                                  -1.168**
0.358
     f3_physatt4
13     3                                                                   1.077**
0.311
14     4                                                                   0.905**
0.316
15     5                                                                   0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                 0.499
0.413
17     2.4                                                                 0.628
0.417
18     2.5                                                                 0.350
0.453
19     3.3                                                                 1.182**
0.445
20     3.4                                                                 1.387**
0.448
21     3.5                                                                 1.655**
0.482
22     4.3                                                                 0.498
0.504
23     4.4                                                                 1.194*
0.506
24     4.5                                                                 1.380*
```

```
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                  1.262**
0.377
26     2.4                                                                  1.196**
0.391
27     2.5                                                                  1.197*
0.478
28     3.3                                                                  1.396**
0.408
29     3.4                                                                  1.612**
0.424
30     3.5                                                                  2.007**
0.506
31     4.3                                                                  1.097*
0.531
32     4.4                                                                  1.840**
0.543
33     4.5                                                                  2.708**
0.622
34   _cons                                                                 -0.797*
0.317
   lnalpha
35   _cons                                                                 -1.678**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.288**
0.110
     physatt_endog
2      1                                                                 0.826**
0.113
     exchange
3      1                                                                 0.342
0.219
     exchange_trad
4      1                                                                 0.347
0.300
     f3_edu4
5      2                                                                 0.383
0.345
6      3                                                                -0.317
0.386
7      4                                                                -0.701
0.450
```

```
     m3_edu4
8      2                                                          -0.512
0.319
9      3                                                          -1.152**
0.361
10     4                                                          -2.182**
0.495
     m3_physatt4
11     3                                                           1.060**
0.257
12     4                                                           0.539
0.276
13     5                                                          -1.057**
0.369
     f3_physatt4
14     3                                                           1.067**
0.311
15     4                                                           0.853**
0.319
16     5                                                           0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                         0.485
0.412
18     2.4                                                         0.614
0.417
19     2.5                                                         0.356
0.453
20     3.3                                                         1.154**
0.444
21     3.4                                                         1.358**
0.448
22     3.5                                                         1.651**
0.481
23     4.3                                                         0.449
0.504
24     4.4                                                         1.156*
0.505
25     4.5                                                         1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                         1.261**
0.376
27     2.4                                                         1.187**
0.389
28     2.5                                                         1.173*
0.477
29     3.3                                                         1.399**
0.407
30     3.4                                                         1.610**
0.423
31     3.5                                                         1.989**
0.505
32     4.3                                                         1.124*
0.532
33     4.4                                                         1.858**
0.543
34     4.5                                                         2.707**
0.621
35   _cons                                                        -0.801*
0.317
   lnalpha
36   _cons                                                        -1.693**
```

```
0.262
-------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
```

```
-------
              storage   display    value
variable name   type    format     label      variable label
--------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
--------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           6           0          6          6
(255 observations deleted)
file ...\temp6.dta saved
```

```
(15070 observations deleted)
imputation is 7
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        288       19.11       19.11
          2 |        586       38.89       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
```

```
         3 |     0     1     0     0
         4 |     0     0     1     0
         5 |     0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |     1     2     3     4
----------+-----------------------
         1 |     1     0     0     0
           |   .25   .25   .25   .25
           |
         2 |     0     1     0     0
           |   .25   .25   .25   .25
           |
         3 |     0     0     1     0
           |   .25   .25   .25   .25
           |
         4 |     0     0     0     1
           |   .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |   .25   .25   .25   .25
           |     1     0     0     0
           |
         3 |   .25   .25   .25   .25
           |     0     1     0     0
           |
         4 |   .25   .25   .25   .25
           |     0     0     1     0
           |
         5 |   .25   .25   .25   .25
           |     0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |     1     2     3     4
----------+-----------------------
         1 |     0  .375  .375  .375
         2 |  .375     0  .375  .375
         3 |  .375  .375     0  .375
         4 |  .375  .375  .375     0
----------------------------------
```

```
----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.569
   Log likelihood:
-512.216
   LR chi square:
```

```
346.707
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------------
   count
     edu_endog
1      1                                                                     1.283**
0.111
     physatt_endog
2      1                                                                     0.833**
0.113
     exchange
3      1                                                                     0.524**
0.152
     f3_edu4
4      2                                                                     0.345
0.344
5      3                                                                    -0.403
0.381
6      4                                                                    -0.829
0.438
     m3_edu4
7      2                                                                    -0.482
0.320
8      3                                                                    -1.080**
0.358
9      4                                                                    -2.063**
0.484
     m3_physatt4
10     3                                                                     1.040**
0.257
11     4                                                                     0.475
0.272
12     5                                                                    -1.168**
0.358
     f3_physatt4
13     3                                                                     1.076**
0.312
14     4                                                                     0.905**
0.316
15     5                                                                     0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                   0.503
0.413
17     2.4                                                                   0.628
0.418
18     2.5                                                                   0.350
0.454
19     3.3                                                                   1.183**
0.445
20     3.4                                                                   1.387**
```

```
0.449
21     3.5                                                                  1.655**
0.483
22     4.3                                                                  0.498
0.505
23     4.4                                                                  1.194*
0.507
24     4.5                                                                  1.379*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                  1.258**
0.378
26     2.4                                                                  1.196**
0.391
27     2.5                                                                  1.197*
0.479
28     3.3                                                                  1.392**
0.409
29     3.4                                                                  1.611**
0.425
30     3.5                                                                  2.007**
0.507
31     4.3                                                                  1.093*
0.532
32     4.4                                                                  1.840**
0.543
33     4.5                                                                  2.709**
0.622
34   _cons                                                                 -0.798*
0.318
   lnalpha
35   _cons                                                                 -1.672**
0.259
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5694   -512.2159     35     1094.432    1218.513
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2829572   .83290123   .52424857   .34519725  -.40286344  -.82925756
-.48247281

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1    -1.07963  -2.0627806    1.040155   .47477722  -1.1681575   1.0762137
.90472578

         count:      count:      count:      count:      count:      count:
```

```
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15106378   .50317863   .62805925   .34960612   1.1832173   1.3868825
1.6548281

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49842157    1.194158   1.3793146   1.2576792   1.1961677   1.1966964
1.3915325

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6114099   2.0073525   1.0930667   1.8397262   2.7087357  -.79799094
-1.6716091
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.569
   Log likelihood:
-511.540
   LR chi square:
348.059
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                               1.288**
0.111
     physatt_endog
2      1                                                               0.827**
0.113
     exchange
3      1                                                               0.341
0.219
     exchange_trad
4      1                                                               0.349
```

```
0.300
     f3_edu4
5      2                                                          0.384
0.346
6      3                                                         -0.316
0.387
7      4                                                         -0.699
0.450
     m3_edu4
8      2                                                         -0.512
0.320
9      3                                                         -1.152**
0.362
10     4                                                         -2.182**
0.496
     m3_physatt4
11     3                                                          1.064**
0.257
12     4                                                          0.539
0.277
13     5                                                         -1.057**
0.369
     f3_physatt4
14     3                                                          1.066**
0.311
15     4                                                          0.852**
0.319
16     5                                                          0.050
0.361
     f3_edu4.f3_physatt4
17     2.3                                                        0.489
0.412
18     2.4                                                        0.614
0.417
19     2.5                                                        0.356
0.453
20     3.3                                                        1.155**
0.445
21     3.4                                                        1.358**
0.448
22     3.5                                                        1.651**
0.482
23     4.3                                                        0.449
0.504
24     4.4                                                        1.156*
0.506
25     4.5                                                        1.367*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                        1.256**
0.376
27     2.4                                                        1.186**
0.390
28     2.5                                                        1.173*
0.478
29     3.3                                                        1.394**
0.407
30     3.4                                                        1.609**
0.423
31     3.5                                                        1.989**
0.506
32     4.3                                                        1.119*
0.532
```

```
33     4.4                                                                  1.858**
0.544
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.802*
0.317
   lnalpha
36   _cons                                                                 -1.687**
0.261
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5694   -511.5399     36      1095.08    1222.706
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2875974   .82739929   .34092984   .34911278   .38407511  -.31640246
-.69943947

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51227609  -1.1521845  -2.1823243   1.0637149   .53895537  -1.0567643
1.0661988

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85232507   .05034964    .4891276   .61437552   .35583207   1.1552494
1.3580364

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6511032   .44893449   1.1555967   1.3674395   1.2564821   1.1864184
1.1728341

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3940917   1.6094716   1.9888399    1.119352   1.8578118   2.7072763
-.80168812

       lnalpha:
         _cons
y1   -1.686703
```

```
Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.282957           0   1.282957   1.282957
        v1_1 |       256     .012336           0    .012336    .012336
       se1_1 |       256    .1110675           0   .1110675   .1110675
        b1_2 |       256    .8329012           0   .8329012   .8329012
        v1_2 |       256    .0128223           0   .0128223   .0128223
-------------+--------------------------------------------------------
       se1_2 |       256    .1132356           0   .1132356   .1132356
        b1_3 |       256    .5242485           0   .5242485   .5242485
        v1_3 |       256    .0232329           0   .0232329   .0232329
       se1_3 |       256    .1524233           0   .1524233   .1524233
        b2_1 |       256    1.287597           0   1.287597   1.287597
-------------+--------------------------------------------------------
        v2_1 |       256    .0122443           0   .0122443   .0122443
       se2_1 |       256     .110654           0    .110654    .110654
        b2_2 |       256    .8273993           0   .8273993   .8273993
        v2_2 |       256    .0127372           0   .0127372   .0127372
       se2_2 |       256     .112859           0    .112859    .112859
-------------+--------------------------------------------------------
        b2_3 |       256    .3409298           0   .3409298   .3409298
        v2_3 |       256    .0479982           0   .0479982   .0479982
       se2_3 |       256    .2190848           0   .2190848   .2190848
```

```
        b2_4 |       256    .3491128           0   .3491128   .3491128
        v2_4 |       256    .0900746           0   .0900746   .0900746
-------------+---------------------------------------------------------
       se2_4 |       256    .3001244           0   .3001244   .3001244
          mj |       256           7           0          7          7
(255 observations deleted)
file ...\temp7.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 8
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
```

```
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
```

```
Edu)       |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
```

```
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.284**
0.111
     physatt_endog
2      1                                                                    0.831**
0.113
     exchange
3      1                                                                    0.524**
0.152
     f3_edu4
4      2                                                                    0.345
0.343
5      3                                                                   -0.403
0.380
6      4                                                                   -0.830
0.438
     m3_edu4
7      2                                                                   -0.483
0.320
8      3                                                                   -1.080**
0.357
9      4                                                                   -2.063**
0.484
     m3_physatt4
10     3                                                                    1.036**
0.257
11     4                                                                    0.475
0.272
12     5                                                                   -1.168**
0.358
     f3_physatt4
13     3                                                                    1.077**
0.311
14     4                                                                    0.905**
0.316
15     5                                                                    0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                                  0.499
```

```
0.413
17     2.4                                                                  0.628
0.417
18     2.5                                                                  0.350
0.453
19     3.3                                                                  1.182**
0.445
20     3.4                                                                  1.387**
0.448
21     3.5                                                                  1.655**
0.482
22     4.3                                                                  0.498
0.504
23     4.4                                                                  1.194*
0.506
24     4.5                                                                  1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                                  1.262**
0.377
26     2.4                                                                  1.196**
0.391
27     2.5                                                                  1.197*
0.478
28     3.3                                                                  1.396**
0.408
29     3.4                                                                  1.612**
0.424
30     3.5                                                                  2.007**
0.506
31     4.3                                                                  1.097*
0.531
32     4.4                                                                  1.840**
0.543
33     4.5                                                                  2.708**
0.622
34   _cons                                                                 -0.797*
0.317
   lnalpha
35   _cons                                                                 -1.678**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998
```

```
         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                 1.288**
0.110
```

```
     physatt_endog
2      1                                                          0.826**
0.113
     exchange
3      1                                                          0.342
0.219
     exchange_trad
4      1                                                          0.347
0.300
     f3_edu4
5      2                                                          0.383
0.345
6      3                                                         -0.317
0.386
7      4                                                         -0.701
0.450
     m3_edu4
8      2                                                         -0.512
0.319
9      3                                                         -1.152**
0.361
10     4                                                         -2.182**
0.495
     m3_physatt4
11     3                                                          1.060**
0.257
12     4                                                          0.539
0.276
13     5                                                         -1.057**
0.369
     f3_physatt4
14     3                                                          1.067**
0.311
15     4                                                          0.853**
0.319
16     5                                                          0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                        0.485
0.412
18     2.4                                                        0.614
0.417
19     2.5                                                        0.356
0.453
20     3.3                                                        1.154**
0.444
21     3.4                                                        1.358**
0.448
22     3.5                                                        1.651**
0.481
23     4.3                                                        0.449
0.504
24     4.4                                                        1.156*
0.505
25     4.5                                                        1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                        1.261**
0.376
27     2.4                                                        1.187**
0.389
28     2.5                                                        1.173*
0.477
```

```
29     3.3                                                                  1.399**
0.407
30     3.4                                                                  1.610**
0.423
31     3.5                                                                  1.989**
0.505
32     4.3                                                                  1.124*
0.532
33     4.4                                                                  1.858**
0.543
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.801*
0.317
   lnalpha
36   _cons                                                                 -1.693**
0.262
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
```

```
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
```

```
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+---------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+---------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           8           0          8          8
(255 observations deleted)
file ...\temp8.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 9
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
```

```
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
```

```
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
```

```
--------------------------------------------------------------------------------
-------
   Negative binomial regression
--------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
--------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
--------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                  1.284**
0.111
     physatt_endog
2      1                                                                  0.831**
0.113
     exchange
3      1                                                                  0.524**
0.152
     f3_edu4
4      2                                                                  0.345
0.343
5      3                                                                 -0.403
0.380
6      4                                                                 -0.830
0.438
     m3_edu4
7      2                                                                 -0.483
0.320
8      3                                                                 -1.080**
0.357
9      4                                                                 -2.063**
0.484
     m3_physatt4
10     3                                                                  1.036**
0.257
11     4                                                                  0.475
0.272
12     5                                                                 -1.168**
0.358
     f3_physatt4
```

```
13     3                                                                1.077**
0.311
14     4                                                                0.905**
0.316
15     5                                                                0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                              0.499
0.413
17     2.4                                                              0.628
0.417
18     2.5                                                              0.350
0.453
19     3.3                                                              1.182**
0.445
20     3.4                                                              1.387**
0.448
21     3.5                                                              1.655**
0.482
22     4.3                                                              0.498
0.504
23     4.4                                                              1.194*
0.506
24     4.5                                                              1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                              1.262**
0.377
26     2.4                                                              1.196**
0.391
27     2.5                                                              1.197*
0.478
28     3.3                                                              1.396**
0.408
29     3.4                                                              1.612**
0.424
30     3.5                                                              2.007**
0.506
31     4.3                                                              1.097*
0.531
32     4.4                                                              1.840**
0.543
33     4.5                                                              2.708**
0.622
34   _cons                                                             -0.797*
0.317
   lnalpha
35   _cons                                                             -1.678**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
```

```
nr Effect                                                                    Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.288**
0.110
     physatt_endog
2      1                                                                     0.826**
0.113
     exchange
3      1                                                                     0.342
0.219
     exchange_trad
4      1                                                                     0.347
0.300
     f3_edu4
5      2                                                                     0.383
0.345
6      3                                                                    -0.317
0.386
7      4                                                                    -0.701
0.450
     m3_edu4
8      2                                                                    -0.512
0.319
9      3                                                                    -1.152**
0.361
10     4                                                                    -2.182**
0.495
     m3_physatt4
11     3                                                                     1.060**
0.257
12     4                                                                     0.539
0.276
13     5                                                                    -1.057**
0.369
     f3_physatt4
14     3                                                                     1.067**
0.311
15     4                                                                     0.853**
0.319
16     5                                                                     0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                                   0.485
0.412
18     2.4                                                                   0.614
0.417
19     2.5                                                                   0.356
0.453
20     3.3                                                                   1.154**
0.444
21     3.4                                                                   1.358**
0.448
22     3.5                                                                   1.651**
0.481
23     4.3                                                                   0.449
0.504
24     4.4                                                                   1.156*
0.505
25     4.5                                                                   1.368*
```

```
0.549
     m3_edu4.m3_physatt4
26     2.3                                                                  1.261**
0.376
27     2.4                                                                  1.187**
0.389
28     2.5                                                                  1.173*
0.477
29     3.3                                                                  1.399**
0.407
30     3.4                                                                  1.610**
0.423
31     3.5                                                                  1.989**
0.505
32     4.3                                                                  1.124*
0.532
33     4.4                                                                  1.858**
0.543
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.801*
0.317
   lnalpha
36   _cons                                                                 -1.693**
0.262
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
```

```
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256           9           0          9          9
(255 observations deleted)
file ...\temp9.dta saved
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 10
tab before contract
make categorical edu
(1507 differences between m3_yrsedu and m3_edu4)
(1507 differences between f3_yrsedu and f3_edu4)

-> tabulation of f3_edu4

  RECODE of |
  f3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        242       16.06       16.06
          2 |        537       35.63       51.69
          3 |        531       35.24       86.93
          4 |        197       13.07      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m3_edu4

  RECODE of |
  m3_yrsedu |
(W3 - Years |
    of Edu) |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        287       19.04       19.04
          2 |        587       38.95       58.00
          3 |        466       30.92       88.92
          4 |        167       11.08      100.00
------------+-----------------------------------
      Total |      1,507      100.00
edu_endog
(64 real changes made)

-----------------------------------
RECODE of |
```

```
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
physatt_endog
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
```

```
           |    0     1     0     0
           |
         4 |  .25   .25   .25   .25
           |    0     0     1     0
           |
         5 |  .25   .25   .25   .25
           |    0     0     0     1
----------------------------------
exchange
(72 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
exchange_trad--that is, gender-stereotypical exchange (trad=traditional)
(36 real changes made)

----------------------------------
RECODE of |
m3_yrsedu |
(W3 -     |RECODE of f3_yrsedu (W3
Years of  |    - Years of Edu)
Edu)      |    1     2     3     4
----------+-----------------------
        1 |    0     0     0     0
        2 | .375     0     0     0
        3 | .375  .375     0     0
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
```

```
eness)    |     2     3     4     5
----------+----------------------
        2 |     0  .375  .375  .375
        3 |     0     0  .375  .375
        4 |     0     0     0  .375
        5 |     0     0     0     0
-----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-512.088
   LR chi square:
346.941
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.253
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                   Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                     1.284**
0.111
     physatt_endog
2      1                                                                     0.831**
0.113
     exchange
3      1                                                                     0.524**
0.152
     f3_edu4
4      2                                                                     0.345
0.343
5      3                                                                    -0.403
0.380
6      4                                                                    -0.830
0.438
     m3_edu4
7      2                                                                    -0.483
0.320
8      3                                                                    -1.080**
0.357
9      4                                                                    -2.063**
0.484
```

```
     m3_physatt4
10     3                                                                 1.036**
0.257
11     4                                                                 0.475
0.272
12     5                                                                -1.168**
0.358
     f3_physatt4
13     3                                                                 1.077**
0.311
14     4                                                                 0.905**
0.316
15     5                                                                 0.151
0.350
     f3_edu4.f3_physatt4
16     2.3                                                               0.499
0.413
17     2.4                                                               0.628
0.417
18     2.5                                                               0.350
0.453
19     3.3                                                               1.182**
0.445
20     3.4                                                               1.387**
0.448
21     3.5                                                               1.655**
0.482
22     4.3                                                               0.498
0.504
23     4.4                                                               1.194*
0.506
24     4.5                                                               1.380*
0.551
     m3_edu4.m3_physatt4
25     2.3                                                               1.262**
0.377
26     2.4                                                               1.196**
0.391
27     2.5                                                               1.197*
0.478
28     3.3                                                               1.396**
0.408
29     3.4                                                               1.612**
0.424
30     3.5                                                               2.007**
0.506
31     4.3                                                               1.097*
0.531
32     4.4                                                               1.840**
0.543
33     4.5                                                               2.708**
0.622
34   _cons                                                              -0.797*
0.317
   lnalpha
35   _cons                                                              -1.678**
0.260
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion
```

```
-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -512.0876     35     1094.175    1218.256
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   1.2835669   .83142716   .52424082   .34483508  -.40320309   -.8298485
-.48280998

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -1.0801127  -2.0628677   1.0361378   .47505766  -1.1676275    1.077102
.90527653

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .15078811   .49870722    .6277218    .3499908   1.1822664   1.3869264
1.6551708

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .49790584   1.1942859   1.3800248   1.2624619   1.1962677    1.196762
1.3960933

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   1.6118752   2.0074987   1.0974187   1.8398698   2.7084597  -.79747141
-1.6775966
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-685.558
   Log likelihood:
-511.416
   LR chi square:
348.284
   Model degrees of freedom:
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```

```
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     edu_endog
1      1                                                                    1.288**
0.110
     physatt_endog
2      1                                                                    0.826**
0.113
     exchange
3      1                                                                    0.342
0.219
     exchange_trad
4      1                                                                    0.347
0.300
     f3_edu4
5      2                                                                    0.383
0.345
6      3                                                                   -0.317
0.386
7      4                                                                   -0.701
0.450
     m3_edu4
8      2                                                                   -0.512
0.319
9      3                                                                   -1.152**
0.361
10     4                                                                   -2.182**
0.495
     m3_physatt4
11     3                                                                    1.060**
0.257
12     4                                                                    0.539
0.276
13     5                                                                   -1.057**
0.369
     f3_physatt4
14     3                                                                    1.067**
0.311
15     4                                                                    0.853**
0.319
16     5                                                                    0.051
0.360
     f3_edu4.f3_physatt4
17     2.3                                                                  0.485
0.412
18     2.4                                                                  0.614
0.417
19     2.5                                                                  0.356
0.453
20     3.3                                                                  1.154**
0.444
21     3.4                                                                  1.358**
```

```
0.448
22     3.5                                                                  1.651**
0.481
23     4.3                                                                  0.449
0.504
24     4.4                                                                  1.156*
0.505
25     4.5                                                                  1.368*
0.549
     m3_edu4.m3_physatt4
26     2.3                                                                  1.261**
0.376
27     2.4                                                                  1.187**
0.389
28     2.5                                                                  1.173*
0.477
29     3.3                                                                  1.399**
0.407
30     3.4                                                                  1.610**
0.423
31     3.5                                                                  1.989**
0.505
32     4.3                                                                  1.124*
0.532
33     4.4                                                                  1.858**
0.543
34     4.5                                                                  2.707**
0.621
35   _cons                                                                 -0.801*
0.317
   lnalpha
36   _cons                                                                 -1.693**
0.262
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -685.5581   -511.4162     36     1094.832    1222.459
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    1.288172   .82597143   .34178865   .34743398   .38348809   -.3171341
-.70057628

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.51246176  -1.1522909  -2.1818285   1.0595526   .53887233  -1.0568527
1.0671873

         count:      count:      count:      count:      count:      count:
```

```
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .85316161   .05059706   .48482057   .61413636   .35622712   1.1543595
1.3581879

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.6514516   .44854081   1.1557711   1.3681039   1.2612439   1.1865654
1.1730328

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   1.3986278   1.6099619   1.9890668   1.1235832    1.857929   2.7070567
-.80114569

       lnalpha:
         _cons
y1   -1.692648

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            22                          2 Sep 2014 16:33
 size:        22,528
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |       256    1.283567           0   1.283567   1.283567
        v1_1 |       256    .0122896           0   .0122896   .0122896
       se1_1 |       256    .1108587           0   .1108587   .1108587
        b1_2 |       256    .8314272           0   .8314272   .8314272
        v1_2 |       256    .0127844           0   .0127844   .0127844
-------------+--------------------------------------------------------
       se1_2 |       256    .1130681           0   .1130681   .1130681
        b1_3 |       256    .5242408           0   .5242408   .5242408
        v1_3 |       256    .0231702           0   .0231702   .0231702
       se1_3 |       256    .1522176           0   .1522176   .1522176
        b2_1 |       256    1.288172           0   1.288172   1.288172
-------------+--------------------------------------------------------
        v2_1 |       256    .0121988           0   .0121988   .0121988
       se2_1 |       256    .1104482           0   .1104482   .1104482
        b2_2 |       256    .8259714           0   .8259714   .8259714
        v2_2 |       256    .0126999           0   .0126999   .0126999
       se2_2 |       256    .1126937           0   .1126937   .1126937
-------------+--------------------------------------------------------
        b2_3 |       256    .3417886           0   .3417886   .3417886
        v2_3 |       256    .0478741           0   .0478741   .0478741
       se2_3 |       256    .2188015           0   .2188015   .2188015
        b2_4 |       256     .347434           0    .347434    .347434
        v2_4 |       256    .0898283           0   .0898283   .0898283
-------------+--------------------------------------------------------
       se2_4 |       256    .2997137           0   .2997137   .2997137
          mj |       256          10           0         10         10
(255 observations deleted)
file ...\temp10.dta saved

. *** see Rubin, D.B. (1987) Multiple Imputation for Nonresponse in Surveys. J Wiley
& Sons
> , NY ***;
. *** also see sites.stat.psu.edu/~jls/mifaq.html#howto ***;
. use "...\temp1", clear ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. forvalues i=2/10 { ;
  2. append using "...\temp`i'" ;
  3. } ;

. ** p-values for model without gender-stereotypical term **;
. forvalues j=1/3 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b1_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v1_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b1_`j') ;
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b1_`j' avg_b`j' v1_`j' var_b`j' ;
  8. display "p-value for b1_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        10    1.283362    .0003345   1.282741   1.283567
      avg_b1 |        10    1.283362           0   1.283362   1.283362
        v1_1 |        10    .0123004    .0000193   .0122896    .012336
      var_b1 |        10    .0123005           0   .0123005   .0123005
p-value for b1_1
0

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_2 |        10    .8317974    .0006275   .8314272   .8329012
      avg_b2 |        10    .8317974           0   .8317974   .8317974
        v1_2 |        10    .0127929    .0000158   .0127844   .0128223
      var_b2 |        10    .0127933           0   .0127933   .0127933
p-value for b1_2
1.923e-13

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_3 |        10    .5241688    .0002332   .5235052   .5242485
      avg_b3 |        10    .5241688           0   .5241688   .5241688
        v1_3 |        10    .0231845    .0000261   .0231702   .0232329
      var_b3 |        10    .0231845           0   .0231845   .0231845
p-value for b1_3
.0005764

. drop avg_* wi_* bi_* var_* abv_* ;

. ** p-values for model with gender-stereotypical term **;
. forvalues j=1/4 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b2_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v2_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b2_`j') ;
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b2_`j' avg_b`j' v2_`j' var_b`j' ;
  8. display "p-value for b2_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_1 |        10    1.287971     .000333   1.287311   1.288172
      avg_b1 |        10    1.287971           0   1.287971   1.287971
        v2_1 |        10    .0122096    .0000191   .0121988   .0122443
      var_b1 |        10    .0122098           0   .0122098   .0122098
p-value for b2_1
0

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_2 |        10    .8263402    .0006155   .8259714   .8273993
      avg_b2 |        10    .8263402           0   .8263402   .8263402
        v2_2 |        10    .0127084    .0000155   .0126999   .0127372
```

```
      var_b2 |        10    .0127088           0   .0127088   .0127088
p-value for b2_2
2.300e-13

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_3 |        10     .341632    .0003731   .3409298   .3419397
      avg_b3 |        10     .341632           0    .341632    .341632
        v2_3 |        10    .0479033    .0000518   .0478741   .0479982
      var_b3 |        10    .0479035           0   .0479035   .0479035
p-value for b2_3
.1185473

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_4 |        10    .3475983    .0009606   .3457199   .3491128
      avg_b4 |        10    .3475983           0   .3475983   .3475983
        v2_4 |        10    .0898856    .0001027   .0898283   .0900746
      var_b4 |        10    .0898866           0   .0898866   .0898866
p-value for b2_4
.24629646

. * Average BIC for model w/o gender-trad (gender-stereotpyical exchange) term ;
. display (1218.513 + 1218.256 + 1218.256 + 1218.256 + 1218.341 + 1218.256 +
1218.513 + 121
> 8.256 + 1218.256 + 1218.256)/10 ;
1218.3159

. * Average BIC for model w/ gender-trad term ;
. display (1222.706 + 1222.459 + 1222.459 + 1222.459 + 1222.558 + 1222.459 +
1222.706 + 122
> 2.459 + 1222.459 + 1222.459)/10 ;
1222.5183

. * Note--lower BIC indicates better fit so this suggests that the model without the
gender
> -trad (gender-stereotpyical exchange) term fits the data better ;
. ************ Duncan SEI ************************;
. *** not MIM ***;
. use "...\temp.dta", clear ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. egen temp1 = pctile(f4_seip), p(25) ;

. egen temp2 = pctile(f4_seip), p(50) ;

. egen temp3 = pctile(f4_seip), p(75) ;

. gen     f4_seipc = 1 if f4_seip < temp1 ;
(1131 missing values generated)

. replace f4_seipc = 2 if f4_seip >=temp1 & f4_seip <= temp2 ;
(377 real changes made)

. replace f4_seipc = 3 if f4_seip >=temp2 & f4_seip <= temp3 ;
(377 real changes made)

. replace f4_seipc = 4 if f4_seip > temp3 & f4_seip ~=. ;
(376 real changes made)

. drop temp* ;

. sum f4_seipc f4_seip ;
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1505    2.500332    1.118108          1          4
     f4_seip |      1505     48.6907    8.658614   29.50434   76.53989

. table f4_seipc, contents(min f4_seip max f4_seip) ;

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |     29.50434       42.2455
        2 |     42.26461       46.1426
        3 |     46.15088      55.90139
        4 |      55.9077      76.53989
--------------------------------------

. egen temp1 = pctile(m4_seip), p(25) ;

. egen temp2 = pctile(m4_seip), p(50) ;

. egen temp3 = pctile(m4_seip), p(75) ;

. gen     m4_seipc = 1 if m4_seip < temp1 ;
(1133 missing values generated)

. replace m4_seipc = 2 if m4_seip >=temp1 & m4_seip <= temp2 ;
(374 real changes made)

. replace m4_seipc = 3 if m4_seip >=temp2 & m4_seip <= temp3 ;
(374 real changes made)

. replace m4_seipc = 4 if m4_seip > temp3 & m4_seip ~=. ;
(374 real changes made)

. drop temp* ;

. sum m4_seipc m4_seip ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1496         2.5    1.118408          1          4
     m4_seip |      1496    33.94443    13.01603   7.269211   75.52292

. table m4_seipc, contents(min m4_seip max m4_seip) ;

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+---------------------------
        1 |     7.269211      22.96732
        2 |     23.02007      32.38139
        3 |      32.3849      41.27992
        4 |      41.3065      75.52292
--------------------------------------

. tab1 f4_seipc m4_seipc ;

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.98       24.98
          2 |        376       24.98       49.97
```

```
          3 |        377       25.05       75.02
          4 |        376       24.98      100.00
------------+-----------------------------------
      Total |      1,505      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        374       25.00       25.00
          2 |        374       25.00       50.00
          3 |        374       25.00       75.00
          4 |        374       25.00      100.00
------------+-----------------------------------
      Total |      1,496      100.00

. * N okay here.
> tab  f4_seipc m4_seipc ;
. contract m3_physatt4 f3_physatt4 f4_seipc m4_seipc, freq(count) zero ;

. gen sei_endog = 0 ;

. replace sei_endog = 1 if f4_seipc == m4_seipc ;
(80 real changes made)

.  table f4_seipc m4_seipc, contents(mean sei_endog) ;

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------

. gen physatt_endog = 0 ;

. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
(100 real changes made)

.  table m3_physatt4 f3_physatt4 , contents(mean physatt_endog) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

. table f4_seipc m4_seipc, contents(mean sei_endog mean physatt_endog) ;

----------------------------------
```

```
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

. table m3_physatt4 f3_physatt4 , contents(mean sei_endog mean physatt_endog) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |   .2    .2    .2    .2
          |    1     0     0     0
          |
        3 |   .2    .2    .2    .2
          |    0     1     0     0
          |
        4 |   .2    .2    .2    .2
          |    0     0     1     0
          |
        5 |   .2    .2    .2    .2
          |    0     0     0     1
----------------------------------

. gen exchange = 0 ;

. replace exchange = 1 if ((f4_seipc > m4_seipc) & (f3_physatt4 < m3_physatt4 ))
>                       | ((f4_seipc < m4_seipc) & (f3_physatt4 > m3_physatt4 )) ;
(120 real changes made)

. table f4_seipc m4_seipc, contents(mean exchange) ;

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

. table m3_physatt4 f3_physatt4 , contents(mean exchange) ;

----------------------------------
RECODE of |
```

```
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+----------------------
        2 |     0    .4    .4    .4
        3 |    .4     0    .4    .4
        4 |    .4    .4     0    .4
        5 |    .4    .4    .4     0
----------------------------------

. gen exchange_trad = 0 ;

. replace exchange_trad = 1 if ((f4_seipc < m4_seipc) & (f3_physatt4 > m3_physatt4
)) ;
(60 real changes made)

. table f4_seipc m4_seipc, contents(mean exchange_trad) ;

----------------------------------
          |        m4_seipc
 f4_seipc |     1     2     3     4
----------+----------------------
        1 |     0  .375  .375  .375
        2 |     0     0  .375  .375
        3 |     0     0     0  .375
        4 |     0     0     0     0
----------------------------------

. table m3_physatt4 f3_physatt4 , contents(mean exchange_trad) ;

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+----------------------
        2 |     0    .4    .4    .4
        3 |     0     0    .4    .4
        4 |     0     0     0    .4
        5 |     0     0     0     0
----------------------------------

. display "nbreg, without gender-stereotypical exchange term (only gender-symmetric
exchang
> e)" ;
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)

. desmat: nbreg count sei_endog physatt_endog exchange f4_seipc m4_seipc m3_physatt4
f3_phy
> satt4 f4_seipc*f3_physatt4 m4_seipc*m3_physatt4 ;
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
```

```
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-711.723
   Log likelihood:
-526.172
   LR chi square:
371.101
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.261
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                     1.021**
0.104
     physatt_endog
2      1                                                                     0.755**
0.105
     exchange
3      1                                                                     0.276*
0.139
     f4_seipc
4      2                                                                    -0.863*
0.360
5      3                                                                    -0.617
0.336
6      4                                                                    -0.761*
0.351
     m4_seipc
7      2                                                                    -0.262
0.330
8      3                                                                    -0.541
0.351
9      4                                                                    -0.870*
0.378
     m3_physatt4
10     3                                                                     1.607**
0.257
11     4                                                                     1.277**
0.265
12     5                                                                    -0.399
0.332
     f3_physatt4
13     3                                                                     1.231**
0.258
14     4                                                                     0.884**
0.266
15     5                                                                     0.166
```

```
0.289
     f4_seipc.f3_physatt4
16     2.3                                                          1.000*
0.415
17     2.4                                                          1.265**
0.419
18     2.5                                                          0.769
0.453
19     3.3                                                          0.491
0.395
20     3.4                                                          1.067**
0.401
21     3.5                                                          0.876*
0.431
22     4.3                                                          0.313
0.409
23     4.4                                                          1.097**
0.417
24     4.5                                                          1.468**
0.442
     m4_seipc.m3_physatt4
25     2.3                                                          0.603
0.379
26     2.4                                                          0.112
0.393
27     2.5                                                          0.387
0.471
28     3.3                                                          0.672
0.397
29     3.4                                                          0.583
0.408
30     3.5                                                          0.934
0.482
31     4.3                                                          0.664
0.420
32     4.4                                                          0.944*
0.431
33     4.5                                                          1.549**
0.499
34   _cons                                                         -0.661*
0.292
   lnalpha
35   _cons                                                         -1.832**
0.208
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -711.7228   -526.1724     35     1122.345    1246.426
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. display "nbreg, with gender-stereotypical exchange term" ;
nbreg, with gender-stereotypical exchange term
```

```
. desmat: nbreg count sei_endog physatt_endog exchange exchange_trad f4_seipc
m4_seipc m3_p
> hysatt4 f3_physatt4 f4_seipc*f3_physatt4 m4_seipc*m3_physatt4 ;
-------------------------------------------------------------------------------
-------
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-711.723
   Log likelihood:
-526.166
   LR chi square:
371.113
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.261
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                 1.021**
0.104
     physatt_endog
2      1                                                                 0.754**
0.105
     exchange
3      1                                                                 0.259
0.205
     exchange_trad
4      1                                                                 0.031
0.276
     f4_seipc
5      2                                                                -0.860*
0.361
6      3                                                                -0.610
0.343
7      4                                                                -0.750*
0.364
     m4_seipc
8      2                                                                -0.266
0.331
9      3                                                                -0.547
0.356
10     4                                                                -0.880*
0.388
     m3_physatt4
11     3                                                                 1.608**
```

```
0.257
12     4                                                                1.281**
0.268
13     5                                                               -0.391
0.339
     f3_physatt4
14     3                                                                1.230**
0.258
15     4                                                                0.879**
0.270
16     5                                                                0.159
0.296
     f4_seipc.f3_physatt4
17     2.3                                                              1.000*
0.415
18     2.4                                                              1.264**
0.419
19     2.5                                                              0.768
0.453
20     3.3                                                              0.489
0.396
21     3.4                                                              1.064**
0.402
22     3.5                                                              0.874*
0.431
23     4.3                                                              0.309
0.410
24     4.4                                                              1.094**
0.418
25     4.5                                                              1.466**
0.442
     m4_seipc.m3_physatt4
26     2.3                                                              0.604
0.379
27     2.4                                                              0.113
0.393
28     2.5                                                              0.387
0.471
29     3.3                                                              0.673
0.397
30     3.4                                                              0.585
0.408
31     3.5                                                              0.934
0.482
32     4.3                                                              0.666
0.420
33     4.4                                                              0.946*
0.431
34     4.5                                                              1.549**
0.499
35   _cons                                                             -0.660*
0.291
   lnalpha
36   _cons                                                             -1.833**
0.209
------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

.  estat ic ;

Akaike's information criterion and Bayesian information criterion
```

```
-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -711.7228   -526.1662     36     1124.332    1251.959
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

. *** MIM ***;
. forvalues i = 1/10 { ;
  2. display "basic model - combines relp duration & union status groups" ;
  3. use "...\temp_mim.dta", clear ;
  4. keep if _mj == `i' ;
  5. display "imputation is `i'" ;
  6. egen temp1 = pctile(f4_seip), p(25) ;
  7. egen temp2 = pctile(f4_seip), p(50) ;
  8. egen temp3 = pctile(f4_seip), p(75) ;
  9. gen     f4_seipc = 1 if f4_seip < temp1 ;
 10. replace f4_seipc = 2 if f4_seip >=temp1 & f4_seip <= temp2 ;
 11. replace f4_seipc = 3 if f4_seip >=temp2 & f4_seip <= temp3 ;
 12. replace f4_seipc = 4 if f4_seip > temp3 & f4_seip ~=. ;
 13. drop temp* ;
 14. sum f4_seipc f4_seip ;
 15. table f4_seipc, contents(min f4_seip max f4_seip) ;
 16. egen temp1 = pctile(m4_seip), p(25) ;
 17. egen temp2 = pctile(m4_seip), p(50) ;
 18. egen temp3 = pctile(m4_seip), p(75) ;
 19. gen     m4_seipc = 1 if m4_seip < temp1 ;
 20. replace m4_seipc = 2 if m4_seip >=temp1 & m4_seip <= temp2 ;
 21. replace m4_seipc = 3 if m4_seip >=temp2 & m4_seip <= temp3 ;
 22. replace m4_seipc = 4 if m4_seip > temp3 & m4_seip ~=. ;
 23. drop temp* ;
 24. sum m4_seipc m4_seip ;
 25. table m4_seipc, contents(min m4_seip max m4_seip) ;
 26. tab1 f4_seipc m4_seipc ;
 27. contract m3_physatt4 f3_physatt4 f4_seipc m4_seipc, freq(count) zero ;
 28. gen sei_endog = 0 ;
 29. replace sei_endog = 1 if f4_seipc == m4_seipc ;
 30.  table f4_seipc m4_seipc, contents(mean sei_endog) ;
 31. gen physatt_endog = 0 ;
 32. replace physatt_endog = 1 if m3_physatt4 == f3_physatt4 ;
 33.  table m3_physatt4 f3_physatt4 , contents(mean physatt_endog) ;
 34. table f4_seipc m4_seipc, contents(mean sei_endog mean physatt_endog) ;
 35. table m3_physatt4 f3_physatt4 , contents(mean sei_endog mean physatt_endog) ;
 36. gen exchange = 0 ;
 37. replace exchange = 1 if ((f4_seipc > m4_seipc) & (f3_physatt4 < m3_physatt4 ))
>                       | ((f4_seipc < m4_seipc) & (f3_physatt4 > m3_physatt4 )) ;
 38. table f4_seipc m4_seipc, contents(mean exchange) ;
 39. table m3_physatt4 f3_physatt4 , contents(mean exchange) ;
 40. gen exchange_trad = 0 ;
 41. replace exchange_trad = 1 if ((f4_seipc < m4_seipc) & (f3_physatt4 >
m3_physatt4 )) ;
 42. table f4_seipc m4_seipc, contents(mean exchange_trad) ;
 43. table m3_physatt4 f3_physatt4 , contents(mean exchange_trad) ;
 44. display "nbreg, without gender-stereotypical exchange term (only
gender-symmetric exch
> ange)" ;
 45. desmat: nbreg count sei_endog physatt_endog exchange f4_seipc m4_seipc
m3_physatt4 f3_
> physatt4 f4_seipc*f3_physatt4 m4_seipc*m3_physatt4 ;
 46.  estat ic ;
 47. * this is the coef matrix *;
. matrix b1=e(b) ;
```

```
 48.  matrix list b1 ;
 49. matrix v1=e(V) ;
 50. forvalues j=1/3 { ;
 51. gen b1_`j'=b1[1,`j'] ;
 52. gen v1_`j'=v1[`j',`j'] ;
 53. gen se1_`j'=sqrt(v1_`j');
 54. } ;
 55. display "nbreg, with gender-stereotypical exchange term" ;
 56. desmat: nbreg count sei_endog physatt_endog exchange exchange_trad f4_seipc
m4_seipc m
> 3_physatt4 f3_physatt4 f4_seipc*f3_physatt4 m4_seipc*m3_physatt4 ;
 57.  estat ic ;
 58. * this is the coef matrix *;
. matrix b2=e(b) ;
 59.  matrix list b2 ;
 60. matrix v2=e(V) ;
 61. forvalues j=1/4 { ;
 62. gen b2_`j'=b2[1,`j'] ;
 63. gen v2_`j'=v2[`j',`j'] ;
 64. gen se2_`j'=sqrt(v2_`j');
 65. } ;
 66. drop _* ;
 67. gen mj=`i' ;
 68. keep mj b* v* se* ;
 69. des ;
 70.  sum ;
 71. sample 1, count ;
 72.  save "...\temp`i'", replace ;
 73. };
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 1
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    41.63899    22.27766  -216.4035   76.53989

---------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+----------------------------
        1 |    -216.4035       38.0248
        2 |     38.02883      42.31789
        3 |     42.35524      52.29266
        4 |     52.30354      76.53989
---------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.00581    16.12554  -72.99061   131.8965

---------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
```

```
----------+---------------------------
        1 |    -72.99061      32.14566
        2 |     32.17754      40.10349
        3 |     40.11647      51.33149
        4 |      51.3731      131.8965
-------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
```

```
           |
         2 |     0     1     0     0
           |   .25   .25   .25   .25
           |
         3 |     0     0     1     0
           |   .25   .25   .25   .25
           |
         4 |     0     0     0     1
           |   .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |   .25   .25   .25   .25
           |     1     0     0     0
           |
         3 |   .25   .25   .25   .25
           |     0     1     0     0
           |
         4 |   .25   .25   .25   .25
           |     0     0     1     0
           |
         5 |   .25   .25   .25   .25
           |     0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
           |         m4_seipc
 f4_seipc |     1     2     3     4
----------+-----------------------
         1 |     0  .375  .375  .375
         2 |  .375     0  .375  .375
         3 |  .375  .375     0  .375
         4 |  .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |     0  .375  .375  .375
         3 |  .375     0  .375  .375
         4 |  .375  .375     0  .375
         5 |  .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
```

```
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.914
   Log likelihood:
-522.404
   LR chi square:
399.020
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.276
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                     0.774**
0.090
     physatt_endog
2      1                                                                     0.692**
0.092
```

```
     exchange
3      1                                                          0.263*
0.123
     f4_seipc
4      2                                                          0.055
0.310
5      3                                                         -0.410
0.337
6      4                                                         -0.613
0.354
     m4_seipc
7      2                                                          0.039
0.329
8      3                                                          0.034
0.328
9      4                                                         -0.346
0.357
     m3_physatt4
10     3                                                          2.009**
0.263
11     4                                                          1.504**
0.273
12     5                                                          0.076
0.321
     f3_physatt4
13     3                                                          1.564**
0.257
14     4                                                          1.397**
0.262
15     5                                                          0.267
0.296
     f4_seipc.f3_physatt4
16     2.3                                                       -0.014
0.357
17     2.4                                                       -0.093
0.361
18     2.5                                                        0.289
0.400
19     3.3                                                        0.228
0.381
20     3.4                                                        0.595
0.385
21     3.5                                                        0.883*
0.424
22     4.3                                                        0.103
0.397
23     4.4                                                        0.728
0.403
24     4.5                                                        1.534**
0.436
     m4_seipc.m3_physatt4
25     2.3                                                        0.005
0.366
26     2.4                                                       -0.059
0.377
27     2.5                                                       -0.265
0.454
28     3.3                                                       -0.089
0.364
29     3.4                                                        0.084
0.377
30     3.5                                                        0.096
0.444
```

```
31     4.3                                                                  0.109
0.388
32     4.4                                                                  0.404
0.402
33     4.5                                                                  0.852
0.460
34   _cons                                                                 -1.094**
0.315
   lnalpha
35   _cons                                                                 -2.325**
0.265
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.9139   -522.4041     35     1114.808    1238.889
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .77409261   .69189143    .2632095   .05472533  -.41028171   -.6125154
.03884533

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .03438909  -.34580423   2.0086692   1.5043699   .07563777    1.564366
1.3966301

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .26708366  -.01447871  -.09250492   .28898487   .22780923   .59549285
.88261146

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .10301654   .72809993   1.5344083   .00528393  -.05902983  -.26501285
-.08891027

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .08381703   .09615986    .1089941   .40439237    .8519855  -1.0936702
-2.3246186
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
```

```
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.914
   Log likelihood:
-522.192
   LR chi square:
399.444
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.277
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                 0.775**
0.090
     physatt_endog
2      1                                                                 0.690**
0.092
     exchange
3      1                                                                 0.176
0.183
     exchange_trad
4      1                                                                 0.159
0.244
     f4_seipc
5      2                                                                 0.075
0.312
6      3                                                                -0.373
0.342
7      4                                                                -0.558
0.363
     m4_seipc
8      2                                                                 0.022
0.330
9      3                                                                 0.001
0.332
10     4                                                                -0.392
0.363
     m3_physatt4
11     3                                                                 2.016**
0.263
12     4                                                                 1.532**
0.276
13     5                                                                 0.121
0.328
```

```
     f3_physatt4
14     3                                                                 1.559**
0.257
15     4                                                                 1.369**
0.265
16     5                                                                 0.225
0.303
     f4_seipc.f3_physatt4
17     2.3                                                              -0.022
0.357
18     2.4                                                              -0.099
0.361
19     2.5                                                               0.283
0.400
20     3.3                                                               0.214
0.381
21     3.4                                                               0.583
0.385
22     3.5                                                               0.875*
0.424
23     4.3                                                               0.083
0.398
24     4.4                                                               0.713
0.403
25     4.5                                                               1.525**
0.435
     m4_seipc.m3_physatt4
26     2.3                                                               0.008
0.365
27     2.4                                                              -0.058
0.377
28     2.5                                                              -0.266
0.454
29     3.3                                                              -0.082
0.364
30     3.4                                                               0.091
0.377
31     3.5                                                               0.097
0.444
32     4.3                                                               0.120
0.388
33     4.4                                                               0.412
0.402
34     4.5                                                               0.851
0.459
35   _cons                                                              -1.092**
0.315
   lnalpha
36   _cons                                                              -2.331**
0.266
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.9139   -522.1917     36     1116.383     1244.01
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .77542669   .68963542   .17557638   .15888292   .07533603   -.3725399
-.55845047

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .02231579   .00099386  -.39223908    2.015896   1.5317894   .12080861
1.5589897

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.3687571   .22485263  -.02168844  -.09946686   .28320174    .2139167
.58337438

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .87451878   .08260056   .71325429   1.5254322   .00804002  -.05793142
-.26597816

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1  -.08172481   .09056506   .09676978   .11992233    .4119646   .85097831
-1.0924608

       lnalpha:
         _cons
y1  -2.3306467

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
```

```
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
--------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .7740926           0   .7740926   .7740926
        v1_1 |       256    .0081552           0   .0081552   .0081552
       se1_1 |       256    .0903062           0   .0903062   .0903062
        b1_2 |       256    .6918914           0   .6918914   .6918914
-------------+--------------------------------------------------------
        v1_2 |       256    .0084313           0   .0084313   .0084313
       se1_2 |       256    .0918223           0   .0918223   .0918223
        b1_3 |       256    .2632095           0   .2632095   .2632095
        v1_3 |       256    .0151683           0   .0151683   .0151683
       se1_3 |       256    .1231597           0   .1231597   .1231597
-------------+--------------------------------------------------------
        b2_1 |       256    .7754267           0   .7754267   .7754267
        v2_1 |       256    .0081292           0   .0081292   .0081292
       se2_1 |       256    .0901619           0   .0901619   .0901619
        b2_2 |       256    .6896354           0   .6896354   .6896354
        v2_2 |       256    .0084157           0   .0084157   .0084157
-------------+--------------------------------------------------------
       se2_2 |       256     .091737           0    .091737    .091737
        b2_3 |       256    .1755764           0   .1755764   .1755764
        v2_3 |       256    .0333619           0   .0333619   .0333619
       se2_3 |       256    .1826523           0   .1826523   .1826523
        b2_4 |       256    .1588829           0   .1588829   .1588829
-------------+--------------------------------------------------------
        v2_4 |       256    .0594186           0   .0594186   .0594186
       se2_4 |       256    .2437593           0   .2437593   .2437593
          mj |       256           1           0          1          1
(255 observations deleted)
file ...\temp1.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 2
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    42.21076    20.58038  -149.9512   76.53989
```

```
----------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+-----------------------------
        1 |    -149.9512      38.24659
        2 |     38.25305      42.54265
        3 |     42.54378      52.83458
        4 |     52.83464      76.53989
----------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.97493    19.05309  -153.3403    147.971

----------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+-----------------------------
        1 |    -153.3403       32.3372
        2 |     32.36999      40.89529
        3 |      40.9752      53.45792
        4 |     53.47832       147.971
----------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
```

```
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.502
   Log likelihood:
-532.544
   LR chi square:
377.917
```

```
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.262
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.622**
0.093
     physatt_endog
2      1                                                                    0.698**
0.095
     exchange
3      1                                                                    0.286*
0.126
     f4_seipc
4      2                                                                   -0.403
0.317
5      3                                                                   -0.601
0.331
6      4                                                                   -0.825*
0.349
     m4_seipc
7      2                                                                    0.107
0.329
8      3                                                                   -0.096
0.340
9      4                                                                   -0.239
0.351
     m3_physatt4
10     3                                                                    1.996**
0.267
11     4                                                                    1.517**
0.276
12     5                                                                   -0.254
0.346
     f3_physatt4
13     3                                                                    1.412**
0.247
14     4                                                                    1.140**
0.255
15     5                                                                   -0.076
0.297
     f4_seipc.f3_physatt4
16     2.3                                                                  0.355
0.365
17     2.4                                                                  0.420
0.371
18     2.5                                                                  0.935*
0.411
19     3.3                                                                  0.304
0.379
20     3.4                                                                  0.820*
0.384
```

```
21     3.5                                                                  1.302**
0.426
22     4.3                                                                  0.304
0.395
23     4.4                                                                  1.013*
0.404
24     4.5                                                                  1.825**
0.443
     m4_seipc.m3_physatt4
25     2.3                                                                 -0.056
0.368
26     2.4                                                                 -0.121
0.380
27     2.5                                                                  0.174
0.464
28     3.3                                                                  0.108
0.377
29     3.4                                                                  0.112
0.390
30     3.5                                                                  0.410
0.477
31     4.3                                                                 -0.044
0.386
32     4.4                                                                  0.308
0.399
33     4.5                                                                  1.241**
0.471
34   _cons                                                                 -0.832**
0.310
   lnalpha
35   _cons                                                                 -2.178**
0.250
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.5025    -532.544     35     1135.088    1259.169
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1     .622155   .69842441   .28626317  -.40341821  -.60105328  -.82532851
.10662516

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.09561993  -.23942954   1.9959074   1.5165676     -.25385   1.4118066
1.1398124

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1  -.07647548   .35497935   .42023051   .93511962   .30369049   .81957984
1.3021189

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .30423358   1.0130143   1.8250181  -.05557167  -.12069998   .17363946
.10786868

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .11179789   .40969978  -.04440792   .30780668   1.2411218  -.83172251
-2.1776469
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.502
   Log likelihood:
-531.626
   LR chi square:
379.753
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.263
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                               0.625**
0.092
     physatt_endog
2      1                                                               0.693**
0.094
     exchange
3      1                                                               0.097
0.188
     exchange_trad
4      1                                                               0.340
0.250
```

```
     f4_seipc
5      2                                                          -0.361
0.317
6      3                                                          -0.516
0.335
7      4                                                          -0.706*
0.358
     m4_seipc
8      2                                                           0.070
0.329
9      3                                                          -0.166
0.344
10     4                                                          -0.339
0.358
     m3_physatt4
11     3                                                           2.012**
0.267
12     4                                                           1.575**
0.278
13     5                                                          -0.157
0.352
     f3_physatt4
14     3                                                           1.396**
0.246
15     4                                                           1.078**
0.258
16     5                                                          -0.172
0.305
     f4_seipc.f3_physatt4
17     2.3                                                         0.344
0.364
18     2.4                                                         0.406
0.370
19     2.5                                                         0.928*
0.410
20     3.3                                                         0.272
0.378
21     3.4                                                         0.792*
0.383
22     3.5                                                         1.282**
0.425
23     4.3                                                         0.261
0.394
24     4.4                                                         0.979*
0.402
25     4.5                                                         1.806**
0.441
     m4_seipc.m3_physatt4
26     2.3                                                        -0.049
0.367
27     2.4                                                        -0.117
0.379
28     2.5                                                         0.179
0.463
29     3.3                                                         0.123
0.376
30     3.4                                                         0.130
0.389
31     3.5                                                         0.410
0.476
32     4.3                                                        -0.017
0.386
33     4.4                                                         0.322
```

```
0.399
34     4.5                                                                  1.243**
0.470
35   _cons                                                                 -0.829**
0.309
   lnalpha
36   _cons                                                                 -2.204**
0.253
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.5025   -531.6261     36     1135.252    1262.879
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    .6246017   .69287186   .09675821   .33957072  -.36143715  -.51637099
-.70565193

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .07033491  -.16594717  -.33893379   2.0121553   1.5754771  -.15733821
1.3962143

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.0778038  -.17186831   .34408019   .40559074   .92807402   .27157927
.79236844

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1    1.281747   .26096257   .97887639   1.8063735  -.04854091  -.11727059
.17914784

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   .12329476   .12975263   .41044629  -.01710746   .32241561   1.2430907
-.82874194

       lnalpha:
         _cons
y1  -2.2040822

Contains data from ...\temp_mim.dta
```

```
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256     .622155           0    .622155    .622155
        v1_1 |       256    .0086437           0   .0086437   .0086437
       se1_1 |       256    .0929716           0   .0929716   .0929716
        b1_2 |       256    .6984244           0   .6984244   .6984244
-------------+--------------------------------------------------------
        v1_2 |       256    .0089391           0   .0089391   .0089391
       se1_2 |       256    .0945467           0   .0945467   .0945467
        b1_3 |       256    .2862632           0   .2862632   .2862632
        v1_3 |       256    .0158038           0   .0158038   .0158038
       se1_3 |       256    .1257131           0   .1257131   .1257131
-------------+--------------------------------------------------------
        b2_1 |       256    .6246017           0   .6246017   .6246017
        v2_1 |       256    .0085143           0   .0085143   .0085143
       se2_1 |       256    .0922732           0   .0922732   .0922732
        b2_2 |       256    .6928719           0   .6928719   .6928719
        v2_2 |       256    .0088353           0   .0088353   .0088353
-------------+--------------------------------------------------------
       se2_2 |       256    .0939963           0   .0939963   .0939963
        b2_3 |       256    .0967582           0   .0967582   .0967582
        v2_3 |       256    .0354777           0   .0354777   .0354777
```

```
       se2_3 |       256    .1883554           0   .1883554   .1883554
        b2_4 |       256    .3395707           0   .3395707   .3395707
-------------+---------------------------------------------------------
        v2_4 |       256    .0625795           0   .0625795   .0625795
       se2_4 |       256    .2501589           0   .2501589   .2501589
          mj |       256           2           0          2          2
(255 observations deleted)
file ...\temp2.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 3
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507     40.8544    23.41529  -167.1138   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -167.1138      37.97325
        2 |     37.97466      42.35333
        3 |     42.35931       51.9738
        4 |     52.01014      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    42.99466    16.36799  -56.44919   142.7685

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+---------------------------
        1 |    -56.44919      32.53939
        2 |     32.55094      40.62966
        3 |      40.6415      51.33149
        4 |      51.3739      142.7685
--------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
```

```
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
```

```
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
```

```
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-719.710
   Log likelihood:
-537.259
   LR chi square:
364.901
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.254
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.589**
0.094
     physatt_endog
2      1                                                                    0.628**
0.095
     exchange
3      1                                                                    0.030
0.129
     f4_seipc
4      2                                                                   -0.327
0.311
5      3                                                                   -0.727*
0.343
6      4                                                                   -0.739*
0.347
     m4_seipc
7      2                                                                    0.415
0.323
8      3                                                                    0.071
0.345
9      4                                                                   -0.278
0.375
     m3_physatt4
10     3                                                                    2.117**
0.273
11     4                                                                    1.574**
```

```
0.283
12     5                                                                0.199
0.332
     f3_physatt4
13     3                                                                1.404**
0.244
14     4                                                                1.098**
0.254
15     5                                                                0.214
0.284
     f4_seipc.f3_physatt4
16     2.3                                                              0.354
0.362
17     2.4                                                              0.482
0.368
18     2.5                                                              0.452
0.405
19     3.3                                                              0.429
0.391
20     3.4                                                              1.017*
0.397
21     3.5                                                              1.058*
0.431
22     4.3                                                              0.217
0.395
23     4.4                                                              0.932*
0.404
24     4.5                                                              1.456**
0.433
     m4_seipc.m3_physatt4
25     2.3                                                             -0.395
0.365
26     2.4                                                             -0.397
0.377
27     2.5                                                             -0.391
0.446
28     3.3                                                             -0.077
0.382
29     3.4                                                              0.038
0.396
30     3.5                                                              0.047
0.462
31     4.3                                                              0.098
0.408
32     4.4                                                              0.463
0.422
33     4.5                                                              0.613
0.482
34   _cons                                                             -0.878**
0.312
   lnalpha
35   _cons                                                             -2.118**
0.257
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
```

```
           . |    256   -719.7098   -537.2593     35     1144.519      1268.6
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .58885276   .62776674     .030016  -.32748917  -.72736041  -.73894489
.414786

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .07105535  -.27828624   2.1168878   1.5735549   .19932629    1.404309
1.0977699

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .21378047    .3538829   .48157054   .45223432   .42874842   1.0170476
1.0583797

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .21692441   .93199029   1.4563693  -.39535692  -.39709398  -.39094879
-.07678459

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .03842638   .04711703   .09772138   .46279244   .61303591  -.87838126
-2.1181866
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-719.710
   Log likelihood:
-537.024
   LR chi square:
365.372
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.254
   Dispersion:
 mean
```

```
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.590**
0.094
     physatt_endog
2      1                                                                    0.625**
0.095
     exchange
3      1                                                                   -0.068
0.192
     exchange_trad
4      1                                                                    0.177
0.257
     f4_seipc
5      2                                                                   -0.309
0.312
6      3                                                                   -0.688*
0.347
7      4                                                                   -0.681
0.356
     m4_seipc
8      2                                                                    0.398
0.324
9      3                                                                    0.037
0.348
10     4                                                                   -0.328
0.382
     m3_physatt4
11     3                                                                    2.125**
0.273
12     4                                                                    1.603**
0.285
13     5                                                                    0.249
0.339
     f3_physatt4
14     3                                                                    1.396**
0.244
15     4                                                                    1.064**
0.258
16     5                                                                    0.164
0.292
     f4_seipc.f3_physatt4
17     2.3                                                                  0.351
0.361
18     2.4                                                                  0.479
0.367
19     2.5                                                                  0.452
0.404
20     3.3                                                                  0.415
0.390
21     3.4                                                                  1.007*
0.396
22     3.5                                                                  1.051*
0.430
23     4.3                                                                  0.198
```

```
0.396
24     4.4                                                                  0.919*
0.403
25     4.5                                                                  1.449**
0.433
     m4_seipc.m3_physatt4
26     2.3                                                                 -0.393
0.364
27     2.4                                                                 -0.395
0.376
28     2.5                                                                 -0.393
0.446
29     3.3                                                                 -0.071
0.382
30     3.4                                                                  0.045
0.395
31     3.5                                                                  0.045
0.462
32     4.3                                                                  0.109
0.408
33     4.4                                                                  0.470
0.421
34     4.5                                                                  0.612
0.481
35   _cons                                                                 -0.876**
0.311
   lnalpha
36   _cons                                                                 -2.131**
0.259
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -719.7098   -537.0238     36     1146.048    1273.674
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .59022637   .62475328  -.06763083    .1766594  -.30936154  -.68785908
-.68122567

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .39760082    .0369179  -.32815287   2.1254887   1.6032815   .24939527
1.3956974

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.0640574   .16448717   .35089049    .4788709    .4520314   .41495888
```

```
1.0070338

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.0511017   .19756263   .91874205   1.4487689  -.39309438  -.39514508
-.39266745

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1  -.07094885    .0452308   .04543638   .10929747   .47013793   .61249626
-.87562061

       lnalpha:
         _cons
y1  -2.1306156

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .5888528           0   .5888528   .5888528
        v1_1 |       256    .0088706           0   .0088706   .0088706
       se1_1 |       256    .0941841           0   .0941841   .0941841
        b1_2 |       256    .6277667           0   .6277667   .6277667
-------------+---------------------------------------------------------
        v1_2 |       256    .0090542           0   .0090542   .0090542
       se1_2 |       256    .0951536           0   .0951536   .0951536
        b1_3 |       256     .030016           0    .030016    .030016
        v1_3 |       256    .0166146           0   .0166146   .0166146
       se1_3 |       256    .1288977           0   .1288977   .1288977
-------------+---------------------------------------------------------
        b2_1 |       256    .5902264           0   .5902264   .5902264
        v2_1 |       256    .0088083           0   .0088083   .0088083
       se2_1 |       256    .0938524           0   .0938524   .0938524
        b2_2 |       256    .6247533           0   .6247533   .6247533
        v2_2 |       256    .0090114           0   .0090114   .0090114
-------------+---------------------------------------------------------
       se2_2 |       256    .0949285           0   .0949285   .0949285
        b2_3 |       256   -.0676308           0  -.0676308  -.0676308
        v2_3 |       256    .0369732           0   .0369732   .0369732
       se2_3 |       256    .1922841           0   .1922841   .1922841
        b2_4 |       256    .1766594           0   .1766594   .1766594
-------------+---------------------------------------------------------
        v2_4 |       256    .0661064           0   .0661064   .0661064
       se2_4 |       256    .2571116           0   .2571116   .2571116
          mj |       256           3           0          3          3
(255 observations deleted)
file ...\temp3.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 4
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    39.68626    27.83758  -285.4236   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -285.4236      37.78191
        2 |     37.79156      42.20265
        3 |     42.21246      51.31308
        4 |     51.32186      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.14899    17.37417  -217.8024   119.5143

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
```

```
----------+----------------------------
        1 |    -217.8024       32.2179
        2 |     32.23738      40.31795
        3 |     40.32491       51.4994
        4 |     51.52754      119.5143
-------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
```

```
           |
         2 |     0     1     0     0
           |   .25   .25   .25   .25
           |
         3 |     0     0     1     0
           |   .25   .25   .25   .25
           |
         4 |     0     0     0     1
           |   .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |   .25   .25   .25   .25
           |     1     0     0     0
           |
         3 |   .25   .25   .25   .25
           |     0     1     0     0
           |
         4 |   .25   .25   .25   .25
           |     0     0     1     0
           |
         5 |   .25   .25   .25   .25
           |     0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
           |         m4_seipc
 f4_seipc |     1     2     3     4
----------+-----------------------
         1 |     0  .375  .375  .375
         2 |  .375     0  .375  .375
         3 |  .375  .375     0  .375
         4 |  .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |     0  .375  .375  .375
         3 |  .375     0  .375  .375
         4 |  .375  .375     0  .375
         5 |  .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
```

```
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-722.044
   Log likelihood:
-529.807
   LR chi square:
384.474
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.266
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                     0.603**
0.092
     physatt_endog
2      1                                                                     0.668**
0.093
```

```
     exchange
3      1                                                          0.208
0.126
     f4_seipc
4      2                                                         -0.480
0.320
5      3                                                         -0.479
0.316
6      4                                                         -0.940**
0.358
     m4_seipc
7      2                                                         -0.456
0.324
8      3                                                         -0.523
0.326
9      4                                                         -0.588
0.335
     m3_physatt4
10     3                                                          1.670**
0.239
11     4                                                          1.154**
0.249
12     5                                                         -0.497
0.318
     f3_physatt4
13     3                                                          1.374**
0.243
14     4                                                          1.083**
0.251
15     5                                                          0.183
0.281
     f4_seipc.f3_physatt4
16     2.3                                                        0.547
0.367
17     2.4                                                        0.576
0.372
18     2.5                                                        0.551
0.409
19     3.3                                                        0.174
0.365
20     3.4                                                        0.774*
0.370
21     3.5                                                        0.885*
0.406
22     4.3                                                        0.435
0.402
23     4.4                                                        1.179**
0.410
24     4.5                                                        1.670**
0.440
     m4_seipc.m3_physatt4
25     2.3                                                        0.546
0.362
26     2.4                                                        0.449
0.375
27     2.5                                                        0.686
0.455
28     3.3                                                        0.521
0.363
29     3.4                                                        0.643
0.377
30     3.5                                                        0.845
0.459
```

```
31     4.3                                                                  0.312
0.370
32     4.4                                                                  0.719
0.384
33     4.5                                                                  1.421**
0.454
34   _cons                                                                 -0.473
0.283
   lnalpha
35   _cons                                                                 -2.233**
0.253
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -722.0438   -529.8068     35     1129.614    1253.695
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .60271857   .66813309   .20797811  -.47999124   -.4793657   -.9400587
-.45639296

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.52335074  -.58799119    1.670185   1.1540213  -.49695657   1.3742994
1.0827277

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .18296826   .54713625   .57579391   .55079137   .17446974   .77416447
.88516259

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .43507025   1.1786774   1.6702784   .54642075   .44930504   .68591549
.52137543

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .64329352   .84458387   .31175673   .71870849   1.4207561  -.47331926
-2.2327743
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
```

```
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-722.044
   Log likelihood:
-529.496
   LR chi square:
385.096
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.267
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                  0.605**
0.092
     physatt_endog
2      1                                                                  0.665**
0.093
     exchange
3      1                                                                  0.099
0.187
     exchange_trad
4      1                                                                  0.197
0.249
     f4_seipc
5      2                                                                 -0.457
0.321
6      3                                                                 -0.433
0.320
7      4                                                                 -0.871*
0.368
     m4_seipc
8      2                                                                 -0.476
0.324
9      3                                                                 -0.562
0.330
10     4                                                                 -0.644
0.342
     m3_physatt4
11     3                                                                  1.679**
0.239
12     4                                                                  1.189**
0.253
13     5                                                                 -0.440
0.325
```

```
     f3_physatt4
14     3                                                                1.366**
0.243
15     4                                                                1.047**
0.254
16     5                                                                0.128
0.289
     f4_seipc.f3_physatt4
17     2.3                                                              0.540
0.366
18     2.4                                                              0.567
0.372
19     2.5                                                              0.549
0.408
20     3.3                                                              0.156
0.364
21     3.4                                                              0.760*
0.370
22     3.5                                                              0.877*
0.405
23     4.3                                                              0.409
0.403
24     4.4                                                              1.158**
0.410
25     4.5                                                              1.659**
0.440
     m4_seipc.m3_physatt4
26     2.3                                                              0.552
0.362
27     2.4                                                              0.450
0.375
28     2.5                                                              0.687
0.455
29     3.3                                                              0.528
0.363
30     3.4                                                              0.649
0.376
31     3.5                                                              0.843
0.458
32     4.3                                                              0.327
0.370
33     4.4                                                              0.726
0.383
34     4.5                                                              1.419**
0.453
35   _cons                                                             -0.472
0.282
   lnalpha
36   _cons                                                             -2.250**
0.256
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -722.0438   -529.4957     36     1130.991    1258.618
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .60482852    .6653031   .09884673   .19718255  -.45708768  -.43329635
-.87111606

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.47630784  -.56244069  -.64403616   1.6793078    1.188983  -.43950769
1.366118

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.0471895   .12769595   .53981175   .56726628   .54898523   .15554975
.75969769

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .87677061   .40876111   1.1579196   1.6591173    .5516218   .44951909
.68680193

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1    .5282675   .64903347   .84301668   .32692667    .7261533   1.4193511
-.47175333

       lnalpha:
         _cons
y1  -2.2503601

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
```

```
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .6027186           0   .6027186   .6027186
        v1_1 |       256     .008481           0    .008481    .008481
       se1_1 |       256    .0920922           0   .0920922   .0920922
        b1_2 |       256    .6681331           0   .6681331   .6681331
-------------+--------------------------------------------------------
        v1_2 |       256    .0086266           0   .0086266   .0086266
       se1_2 |       256    .0928794           0   .0928794   .0928794
        b1_3 |       256    .2079781           0   .2079781   .2079781
        v1_3 |       256    .0158801           0   .0158801   .0158801
       se1_3 |       256    .1260164           0   .1260164   .1260164
-------------+--------------------------------------------------------
        b2_1 |       256    .6048285           0   .6048285   .6048285
        v2_1 |       256    .0084033           0   .0084033   .0084033
       se2_1 |       256    .0916696           0   .0916696   .0916696
        b2_2 |       256    .6653031           0   .6653031   .6653031
        v2_2 |       256    .0085623           0   .0085623   .0085623
-------------+--------------------------------------------------------
       se2_2 |       256    .0925328           0   .0925328   .0925328
        b2_3 |       256    .0988467           0   .0988467   .0988467
        v2_3 |       256    .0350893           0   .0350893   .0350893
       se2_3 |       256    .1873214           0   .1873214   .1873214
        b2_4 |       256    .1971826           0   .1971826   .1971826
-------------+--------------------------------------------------------
        v2_4 |       256    .0622377           0   .0622377   .0622377
       se2_4 |       256    .2494747           0   .2494747   .2494747
          mj |       256           4           0          4          4
(255 observations deleted)
file ...\temp4.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 5
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    41.24496    23.50524  -289.2956   76.53989
```

```
----------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+-----------------------------
        1 |    -289.2956      38.01155
        2 |      38.0726      42.36746
        3 |     42.37565      52.04576
        4 |     52.09969      76.53989
----------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.23034    17.84284  -153.1075   132.4945

----------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+-----------------------------
        1 |    -153.1075      32.42604
        2 |     32.47172      40.13015
        3 |       40.132      52.11226
        4 |     52.17506      132.4945
----------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     1      0      0      0
        3 |     0      1      0      0
        4 |     0      0      1      0
        5 |     0      0      0      1
----------------------------------

----------------------------------
          |         m4_seipc
 f4_seipc |     1      2      3      4
----------+----------------------
        1 |     1      0      0      0
          |   .25    .25    .25    .25
          |
        2 |     0      1      0      0
          |   .25    .25    .25    .25
          |
        3 |     0      0      1      0
          |   .25    .25    .25    .25
          |
        4 |     0      0      0      1
          |   .25    .25    .25    .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |   .25    .25    .25    .25
          |     1      0      0      0
          |
        3 |   .25    .25    .25    .25
          |     0      1      0      0
          |
        4 |   .25    .25    .25    .25
          |     0      0      1      0
          |
        5 |   .25    .25    .25    .25
          |     0      0      0      1
----------------------------------
(72 real changes made)

----------------------------------
          |         m4_seipc
 f4_seipc |     1      2      3      4
----------+----------------------
        1 |     0   .375   .375   .375
        2 |  .375      0   .375   .375
        3 |  .375   .375      0   .375
```

```
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.464
   Log likelihood:
-518.426
   LR chi square:
406.075
```

```
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.281
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------------
   count
     sei_endog
1      1                                                                     0.700**
0.085
     physatt_endog
2      1                                                                     0.654**
0.087
     exchange
3      1                                                                     0.230
0.120
     f4_seipc
4      2                                                                    -0.310
0.300
5      3                                                                    -0.827*
0.341
6      4                                                                    -0.732*
0.332
     m4_seipc
7      2                                                                    -0.120
0.306
8      3                                                                    -0.416
0.326
9      4                                                                    -0.610
0.344
     m3_physatt4
10     3                                                                     1.851**
0.238
11     4                                                                     1.228**
0.249
12     5                                                                    -0.400
0.320
     f3_physatt4
13     3                                                                     1.386**
0.233
14     4                                                                     1.183**
0.240
15     5                                                                     0.109
0.276
     f4_seipc.f3_physatt4
16     2.3                                                                   0.355
0.342
17     2.4                                                                   0.241
0.348
18     2.5                                                                   0.675
0.385
19     3.3                                                                   0.616
0.379
20     3.4                                                                   1.093**
0.384
```

```
21     3.5                                                                  1.223**
0.424
22     4.3                                                                  0.203
0.373
23     4.4                                                                  0.909*
0.380
24     4.5                                                                  1.587**
0.415
     m4_seipc.m3_physatt4
25     2.3                                                                  0.141
0.341
26     2.4                                                                  0.139
0.354
27     2.5                                                                  0.328
0.441
28     3.3                                                                  0.340
0.358
29     3.4                                                                  0.586
0.371
30     3.5                                                                  0.921*
0.449
31     4.3                                                                  0.266
0.373
32     4.4                                                                  0.852*
0.386
33     4.5                                                                  1.392**
0.458
34   _cons                                                                 -0.657*
0.282
   lnalpha
35   _cons                                                                 -2.550**
0.293
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256    -721.464   -518.4264     35     1106.853    1230.934
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1    .7001098     .653607   .22979719  -.30961472  -.82742678  -.73216975
-.11995493

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.41608286  -.60986601   1.8511174   1.2280187   -.4004905   1.3858381
1.1825721

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .10864015   .35527668   .24061987   .67539405   .61633208   1.0926288
1.2228383

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .20316568   .90862948   1.5868971   .14067149   .13942451   .32784213
.34006822

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .58554849   .92097457   .26607683    .8521103    1.391834  -.65727372
-2.5495281
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.464
   Log likelihood:
-517.978
   LR chi square:
406.972
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.282
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                               0.702**
0.084
     physatt_endog
2      1                                                               0.650**
0.086
     exchange
3      1                                                               0.104
0.179
     exchange_trad
4      1                                                               0.225
0.237
```

```
     f4_seipc
5      2                                                          -0.280
0.301
6      3                                                          -0.774*
0.345
7      4                                                          -0.652
0.342
     m4_seipc
8      2                                                          -0.143
0.307
9      3                                                          -0.460
0.329
10     4                                                          -0.674
0.350
     m3_physatt4
11     3                                                           1.860**
0.238
12     4                                                           1.265**
0.252
13     5                                                          -0.336
0.326
     f3_physatt4
14     3                                                           1.380**
0.233
15     4                                                           1.144**
0.243
16     5                                                           0.048
0.283
     f4_seipc.f3_physatt4
17     2.3                                                         0.343
0.342
18     2.4                                                         0.231
0.347
19     2.5                                                         0.669
0.385
20     3.3                                                         0.594
0.379
21     3.4                                                         1.074**
0.384
22     3.5                                                         1.214**
0.423
23     4.3                                                         0.169
0.374
24     4.4                                                         0.883*
0.380
25     4.5                                                         1.572**
0.414
     m4_seipc.m3_physatt4
26     2.3                                                         0.145
0.340
27     2.4                                                         0.142
0.353
28     2.5                                                         0.327
0.441
29     3.3                                                         0.350
0.357
30     3.4                                                         0.595
0.371
31     3.5                                                         0.918*
0.448
32     4.3                                                         0.282
0.372
33     4.4                                                         0.865*
```

```
0.386
34     4.5                                                                  1.389**
0.457
35   _cons                                                                 -0.656*
0.281
   lnalpha
36   _cons                                                                 -2.570**
0.297
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256    -721.464   -517.9778     36     1107.956    1235.582
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .70173395   .65010374   .10376678   .22516385  -.28006993   -.7737323
-.65234361

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.14260112  -.46000345  -.67397584   1.8603708   1.2646147  -.33556855
1.3799245

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.1443174   .04843164   .34301175   .23125625   .66924335   .59396961
1.0737504

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.2135834   .16929339   .88266954   1.5717899   .14483604   .14245751
.32653476

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   .34964853    .5945492   .91785171   .28236046   .86518012   1.3894661
-.65638393

       lnalpha:
         _cons
y1  -2.5703546

Contains data from ...\temp_mim.dta
```

```
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .7001098           0   .7001098   .7001098
        v1_1 |       256    .0072061           0   .0072061   .0072061
       se1_1 |       256    .0848887           0   .0848887   .0848887
        b1_2 |       256     .653607           0    .653607    .653607
-------------+--------------------------------------------------------
        v1_2 |       256    .0075065           0   .0075065   .0075065
       se1_2 |       256    .0866401           0   .0866401   .0866401
        b1_3 |       256    .2297972           0   .2297972   .2297972
        v1_3 |       256    .0142982           0   .0142982   .0142982
       se1_3 |       256    .1195753           0   .1195753   .1195753
-------------+--------------------------------------------------------
        b2_1 |       256    .7017339           0   .7017339   .7017339
        v2_1 |       256    .0071354           0   .0071354   .0071354
       se2_1 |       256    .0844713           0   .0844713   .0844713
        b2_2 |       256    .6501037           0   .6501037   .6501037
        v2_2 |       256    .0074479           0   .0074479   .0074479
-------------+--------------------------------------------------------
       se2_2 |       256     .086301           0    .086301    .086301
        b2_3 |       256    .1037668           0   .1037668   .1037668
        v2_3 |       256    .0321589           0   .0321589   .0321589
```

```
       se2_3 |       256    .1793291           0   .1793291   .1793291
        b2_4 |       256    .2251638           0   .2251638   .2251638
-------------+--------------------------------------------------------
        v2_4 |       256    .0563628           0   .0563628   .0563628
       se2_4 |       256    .2374086           0   .2374086   .2374086
          mj |       256           5           0          5          5
(255 observations deleted)
file ...\temp5.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 6
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    39.14788    29.17406  -351.3786   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -351.3786      37.69094
        2 |      37.6948      42.18916
        3 |     42.19354      51.39832
        4 |     51.53181      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.07011    16.95159  -131.8388   130.1948

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+---------------------------
        1 |    -131.8388        32.153
        2 |     32.15638      40.14925
        3 |      40.1568      51.38998
        4 |     51.39384      130.1948
--------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
```

```
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
```

```
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
          |         m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |         m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
```

```
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-720.173
   Log likelihood:
-529.980
   LR chi square:
380.386
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.264
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.734**
0.094
     physatt_endog
2      1                                                                    0.676**
0.095
     exchange
3      1                                                                    0.210
0.129
     f4_seipc
4      2                                                                   -0.098
0.312
5      3                                                                   -0.653
0.351
6      4                                                                   -0.594
0.348
     m4_seipc
7      2                                                                   -0.451
0.317
8      3                                                                   -0.561
0.327
9      4                                                                   -0.916*
0.357
     m3_physatt4
10     3                                                                    1.624**
0.238
11     4                                                                    1.036**
```

```
0.250
12     5                                                              -0.446
0.311
     f3_physatt4
13     3                                                               1.530**
0.254
14     4                                                               1.232**
0.262
15     5                                                               0.304
0.291
     f4_seipc.f3_physatt4
16     2.3                                                             0.149
0.363
17     2.4                                                             0.187
0.368
18     2.5                                                             0.264
0.404
19     3.3                                                             0.340
0.398
20     3.4                                                             0.928*
0.403
21     3.5                                                             1.048*
0.436
22     4.3                                                             0.076
0.396
23     4.4                                                             0.773
0.404
24     4.5                                                             1.339**
0.434
     m4_seipc.m3_physatt4
25     2.3                                                             0.513
0.359
26     2.4                                                             0.523
0.372
27     2.5                                                             0.564
0.448
28     3.3                                                             0.563
0.365
29     3.4                                                             0.681
0.381
30     3.5                                                             0.808
0.456
31     4.3                                                             0.612
0.393
32     4.4                                                             1.158**
0.406
33     4.5                                                             1.548**
0.471
34   _cons                                                            -0.597*
0.286
   lnalpha
35   _cons                                                            -2.128**
0.247
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
```

```
           . |    256   -720.1731   -529.9802     35      1129.96    1254.042
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .73362244   .67582283   .20955876   -.0975731   -.6534459  -.59430689
-.45122235

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.56083086  -.91639023   1.6236607   1.0358015   -.4459216   1.5304347
1.2320756

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .30445509   .14932543    .1868608   .26393535   .33971442   .92808676
1.0480524

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .07609225   .77290189   1.3388074   .51270273   .52312329   .56397462
.56324243

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1    .6807779   .80849079   .61217042    1.157678    1.548243  -.59680159
-2.1277932
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-720.173
   Log likelihood:
-529.608
   LR chi square:
381.130
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.265
   Dispersion:
 mean
```

```
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.736**
0.094
     physatt_endog
2      1                                                                    0.672**
0.095
     exchange
3      1                                                                    0.086
0.192
     exchange_trad
4      1                                                                    0.222
0.257
     f4_seipc
5      2                                                                   -0.074
0.312
6      3                                                                   -0.601
0.355
7      4                                                                   -0.521
0.357
     m4_seipc
8      2                                                                   -0.473
0.317
9      3                                                                   -0.608
0.331
10     4                                                                   -0.980**
0.364
     m3_physatt4
11     3                                                                    1.634**
0.238
12     4                                                                    1.073**
0.253
13     5                                                                   -0.381
0.320
     f3_physatt4
14     3                                                                    1.521**
0.254
15     4                                                                    1.192**
0.265
16     5                                                                    0.244
0.299
     f4_seipc.f3_physatt4
17     2.3                                                                  0.143
0.362
18     2.4                                                                  0.183
0.367
19     2.5                                                                  0.259
0.404
20     3.3                                                                  0.320
0.397
21     3.4                                                                  0.914*
0.402
22     3.5                                                                  1.036*
0.435
23     4.3                                                                  0.050
```

```
0.396
24     4.4                                                                  0.755
0.403
25     4.5                                                                  1.328**
0.433
     m4_seipc.m3_physatt4
26     2.3                                                                  0.515
0.358
27     2.4                                                                  0.524
0.371
28     2.5                                                                  0.561
0.447
29     3.3                                                                  0.574
0.365
30     3.4                                                                  0.691
0.381
31     3.5                                                                  0.808
0.455
32     4.3                                                                  0.629
0.393
33     4.4                                                                  1.165**
0.405
34     4.5                                                                  1.545**
0.470
35   _cons                                                                 -0.594*
0.286
   lnalpha
36   _cons                                                                 -2.148**
0.250
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -720.1731   -529.6081     36     1131.216    1258.843
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .73564714   .67236356   .08639001   .22235513  -.07376801  -.60085102
-.52080355

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.47329408  -.60750259  -.98007234   1.6340572   1.0733602  -.38055614
1.5207567

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1    1.191585   .24415138   .14295546   .18261784    .2594316   .32046153
```

```
.91373452

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.0357317   .05020164   .75503025   1.3282481   .51490167   .52431518
.56062824

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   .57401782    .6912703   .80818272   .62893431   1.1652231   1.5449398
-.59418838

       lnalpha:
         _cons
y1  -2.1480045

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .7336224           0   .7336224   .7336224
        v1_1 |       256    .0088421           0   .0088421   .0088421
       se1_1 |       256    .0940324           0   .0940324   .0940324
        b1_2 |       256    .6758229           0   .6758229   .6758229
-------------+---------------------------------------------------------
        v1_2 |       256    .0090683           0   .0090683   .0090683
       se1_2 |       256    .0952278           0   .0952278   .0952278
        b1_3 |       256    .2095588           0   .2095588   .2095588
        v1_3 |       256    .0165893           0   .0165893   .0165893
       se1_3 |       256    .1287993           0   .1287993   .1287993
-------------+---------------------------------------------------------
        b2_1 |       256    .7356471           0   .7356471   .7356471
        v2_1 |       256    .0087442           0   .0087442   .0087442
       se2_1 |       256    .0935105           0   .0935105   .0935105
        b2_2 |       256    .6723636           0   .6723636   .6723636
        v2_2 |       256    .0089862           0   .0089862   .0089862
-------------+---------------------------------------------------------
       se2_2 |       256    .0947953           0   .0947953   .0947953
        b2_3 |       256      .08639           0     .08639     .08639
        v2_3 |       256    .0369815           0   .0369815   .0369815
       se2_3 |       256    .1923057           0   .1923057   .1923057
        b2_4 |       256    .2223551           0   .2223551   .2223551
-------------+---------------------------------------------------------
        v2_4 |       256    .0661227           0   .0661227   .0661227
       se2_4 |       256    .2571434           0   .2571434   .2571434
          mj |       256           6           0          6          6
(255 observations deleted)
file ...\temp6.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 7
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    39.43588    28.36531  -254.6392   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -254.6392      37.58015
        2 |     37.58727      42.11327
        3 |     42.13544      52.10152
        4 |     52.11509      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.42809    17.37427  -157.4349   174.7746

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
```

```
----------+---------------------------
        1 |    -157.4349      32.31323
        2 |     32.33604      40.66423
        3 |     40.66914      52.60581
        4 |     52.62491      174.7746
-------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
```

```
           |
         2 |     0     1     0     0
           |   .25   .25   .25   .25
           |
         3 |     0     0     1     0
           |   .25   .25   .25   .25
           |
         4 |     0     0     0     1
           |   .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
        2 |   .25   .25   .25   .25
          |     1     0     0     0
          |
        3 |   .25   .25   .25   .25
          |     0     1     0     0
          |
        4 |   .25   .25   .25   .25
          |     0     0     1     0
          |
        5 |   .25   .25   .25   .25
          |     0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
          |         m4_seipc
 f4_seipc |     1     2     3     4
----------+-----------------------
        1 |     0  .375  .375  .375
        2 |  .375     0  .375  .375
        3 |  .375  .375     0  .375
        4 |  .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
        2 |     0  .375  .375  .375
        3 |  .375     0  .375  .375
        4 |  .375  .375     0  .375
        5 |  .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
```

```
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.418
   Log likelihood:
-528.173
   LR chi square:
386.491
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.268
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                     0.699**
0.091
     physatt_endog
2      1                                                                     0.650**
0.093
```

```
     exchange
3      1                                                          0.145
0.126
     f4_seipc
4      2                                                         -0.276
0.312
5      3                                                         -0.563
0.333
6      4                                                         -0.693*
0.347
     m4_seipc
7      2                                                         -0.209
0.312
8      3                                                         -0.399
0.325
9      4                                                         -0.763*
0.359
     m3_physatt4
10     3                                                          1.731**
0.242
11     4                                                          1.181**
0.253
12     5                                                         -0.164
0.304
     f3_physatt4
13     3                                                          1.433**
0.245
14     4                                                          1.226**
0.252
15     5                                                          0.313
0.280
     f4_seipc.f3_physatt4
16     2.3                                                        0.330
0.360
17     2.4                                                        0.291
0.366
18     2.5                                                        0.379
0.400
19     3.3                                                        0.351
0.379
20     3.4                                                        0.786*
0.384
21     3.5                                                        0.808
0.419
22     4.3                                                        0.224
0.392
23     4.4                                                        0.845*
0.400
24     4.5                                                        1.364**
0.428
     m4_seipc.m3_physatt4
25     2.3                                                        0.279
0.352
26     2.4                                                        0.308
0.364
27     2.5                                                       -0.011
0.443
28     3.3                                                        0.384
0.362
29     3.4                                                        0.517
0.376
30     3.5                                                        0.596
0.441
```

```
31     4.3                                                                  0.526
0.392
32     4.4                                                                  0.951*
0.405
33     4.5                                                                  1.153*
0.464
34   _cons                                                                 -0.631*
0.287
   lnalpha
35   _cons                                                                 -2.241**
0.256
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.4184   -528.1728     35     1126.346    1250.427
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .69861266   .64951389   .14543841  -.27562415  -.56314467  -.69274108
-.20910194

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.39935249  -.76339322   1.7309569   1.1806693  -.16354121   1.4329418
1.2260681

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .31322296   .32954957   .29092154    .3794922   .35125103    .7855369
.80844076

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .22432725   .84545822    1.364018   .27895742   .30789563   -.0112235
.38422446

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1    .5169324   .59626619   .52610237   .95111675    1.153025  -.63116357
-2.2412474
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
```

```
   Negative binomial regression
-------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.418
   Log likelihood:
-528.145
   LR chi square:
386.548
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.268
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
-------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                  0.698**
0.092
     physatt_endog
2      1                                                                  0.650**
0.093
     exchange
3      1                                                                  0.178
0.185
     exchange_trad
4      1                                                                 -0.060
0.251
     f4_seipc
5      2                                                                 -0.283
0.314
6      3                                                                 -0.577
0.338
7      4                                                                 -0.713*
0.357
     m4_seipc
8      2                                                                 -0.203
0.313
9      3                                                                 -0.387
0.329
10     4                                                                 -0.746*
0.366
     m3_physatt4
11     3                                                                  1.728**
0.242
12     4                                                                  1.171**
0.256
13     5                                                                 -0.180
0.312
```

```
     f3_physatt4
14     3                                                                1.435**
0.245
15     4                                                                1.237**
0.256
16     5                                                                0.329
0.288
     f4_seipc.f3_physatt4
17     2.3                                                              0.332
0.360
18     2.4                                                              0.293
0.366
19     2.5                                                              0.381
0.400
20     3.3                                                              0.356
0.379
21     3.4                                                              0.789*
0.385
22     3.5                                                              0.811
0.419
23     4.3                                                              0.231
0.393
24     4.4                                                              0.851*
0.401
25     4.5                                                              1.367**
0.429
     m4_seipc.m3_physatt4
26     2.3                                                              0.277
0.352
27     2.4                                                              0.307
0.364
28     2.5                                                             -0.011
0.443
29     3.3                                                              0.381
0.362
30     3.4                                                              0.513
0.376
31     3.5                                                              0.595
0.441
32     4.3                                                              0.522
0.392
33     4.4                                                              0.949*
0.405
34     4.5                                                              1.153*
0.464
35   _cons                                                             -0.632*
0.287
   lnalpha
36   _cons                                                             -2.241**
0.256
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.4184   -528.1445     36     1128.289    1255.915
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .69788924   .65036816   .17774539  -.05960073  -.28296961  -.57700321
-.7130335

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.20320087  -.38693446  -.74641195   1.7283476   1.1710254  -.17998479
1.4351795

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.2370095   .32929667    .3323496   .29255703   .38122081   .35620739
.78903082

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .81072646   .23117249   .85084273   1.3673405   .27746661   .30736295
-.01137267

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1    .3810587   .51318685      .59509   .52236857   .94858988   1.1532192
-.63160364

       lnalpha:
         _cons
y1  -2.2406718

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
```

```
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .6986127           0   .6986127   .6986127
        v1_1 |       256    .0083656           0   .0083656   .0083656
       se1_1 |       256    .0914635           0   .0914635   .0914635
        b1_2 |       256    .6495139           0   .6495139   .6495139
-------------+--------------------------------------------------------
        v1_2 |       256    .0085949           0   .0085949   .0085949
       se1_2 |       256    .0927087           0   .0927087   .0927087
        b1_3 |       256    .1454384           0   .1454384   .1454384
        v1_3 |       256    .0158865           0   .0158865   .0158865
       se1_3 |       256    .1260416           0   .1260416   .1260416
-------------+--------------------------------------------------------
        b2_1 |       256    .6978893           0   .6978893   .6978893
        v2_1 |       256    .0083799           0   .0083799   .0083799
       se2_1 |       256    .0915418           0   .0915418   .0915418
        b2_2 |       256    .6503682           0   .6503682   .6503682
        v2_2 |       256    .0086133           0   .0086133   .0086133
-------------+--------------------------------------------------------
       se2_2 |       256    .0928078           0   .0928078   .0928078
        b2_3 |       256    .1777454           0   .1777454   .1777454
        v2_3 |       256    .0343176           0   .0343176   .0343176
       se2_3 |       256    .1852501           0   .1852501   .1852501
        b2_4 |       256   -.0596007           0  -.0596007  -.0596007
-------------+--------------------------------------------------------
        v2_4 |       256     .062915           0    .062915    .062915
       se2_4 |       256    .2508285           0   .2508285   .2508285
          mj |       256           7           0          7          7
(255 observations deleted)
file ...\temp7.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 8
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    41.78008    20.41906  -150.1009   76.53989
```

```
----------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+-----------------------------
        1 |    -150.1009       37.9899
        2 |     38.01377      42.30807
        3 |     42.32093      52.10736
        4 |      52.1458      76.53989
----------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.22463    17.56703   -148.562   123.4531

----------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+-----------------------------
        1 |     -148.562      32.55626
        2 |     32.55886      40.77486
        3 |     40.81794      51.86361
        4 |     51.87617      123.4531
----------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
```

```
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |     1      0      0      0
        3 |     0      1      0      0
        4 |     0      0      1      0
        5 |     0      0      0      1
----------------------------------

----------------------------------
          |         m4_seipc
 f4_seipc |     1      2      3      4
----------+----------------------
        1 |     1      0      0      0
          |   .25    .25    .25    .25
          |
        2 |     0      1      0      0
          |   .25    .25    .25    .25
          |
        3 |     0      0      1      0
          |   .25    .25    .25    .25
          |
        4 |     0      0      0      1
          |   .25    .25    .25    .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2      3      4      5
----------+----------------------
        2 |   .25    .25    .25    .25
          |     1      0      0      0
          |
        3 |   .25    .25    .25    .25
          |     0      1      0      0
          |
        4 |   .25    .25    .25    .25
          |     0      0      1      0
          |
        5 |   .25    .25    .25    .25
          |     0      0      0      1
----------------------------------
(72 real changes made)

----------------------------------
          |         m4_seipc
 f4_seipc |     1      2      3      4
----------+----------------------
        1 |     0   .375   .375   .375
        2 |  .375      0   .375   .375
        3 |  .375   .375      0   .375
```

```
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.586
   Log likelihood:
-521.292
   LR chi square:
400.588
```

```
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.278
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------------
nr Effect                                                                    Coeff
 s.e.
------------------------------------------------------------------------------------------
   count
     sei_endog
1      1                                                                     0.802**
0.086
     physatt_endog
2      1                                                                     0.675**
0.088
     exchange
3      1                                                                     0.289*
0.121
     f4_seipc
4      2                                                                    -0.031
0.312
5      3                                                                    -0.337
0.329
6      4                                                                    -0.522
0.345
     m4_seipc
7      2                                                                    -0.268
0.320
8      3                                                                    -0.210
0.316
9      4                                                                    -0.628
0.348
     m3_physatt4
10     3                                                                     1.787**
0.245
11     4                                                                     1.245**
0.254
12     5                                                                    -0.297
0.315
     f3_physatt4
13     3                                                                     1.613**
0.252
14     4                                                                     1.440**
0.257
15     5                                                                     0.295
0.291
     f4_seipc.f3_physatt4
16     2.3                                                                   0.057
0.355
17     2.4                                                                  -0.019
0.359
18     2.5                                                                   0.310
0.399
19     3.3                                                                   0.083
0.370
20     3.4                                                                   0.458
0.375
```

```
21     3.5                                                                  0.895*
0.412
22     4.3                                                                  0.002
0.386
23     4.4                                                                  0.639
0.392
24     4.5                                                                  1.389**
0.427
     m4_seipc.m3_physatt4
25     2.3                                                                  0.373
0.356
26     2.4                                                                  0.341
0.367
27     2.5                                                                  0.334
0.448
28     3.3                                                                  0.201
0.349
29     3.4                                                                  0.258
0.363
30     3.5                                                                  0.547
0.438
31     4.3                                                                  0.348
0.378
32     4.4                                                                  0.813*
0.390
33     4.5                                                                  1.328**
0.456
34   _cons                                                                 -0.921**
0.300
   lnalpha
35   _cons                                                                 -2.484**
0.295
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.5859   -521.2919     35     1112.584    1236.665
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .80180833   .67450375   .28936397  -.03066663  -.33700675  -.52169554
-.26774968

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.20984002  -.62767245   1.7866565   1.2448909  -.29711063   1.6128584
1.4402193

         count:      count:      count:      count:      count:      count:
count:
```

```
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .29516564     .056519  -.01868114   .30987921   .08336933   .45787926
.8951519

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .00156249   .63913189     1.38857   .37268475   .34111897   .33446374
.20075243

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1     .258248   .54720726   .34834391   .81287779   1.3282799  -.92113211
-2.4841833
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.586
   Log likelihood:
-519.896
   LR chi square:
403.381
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.280
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                              Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                               0.806**
0.085
     physatt_endog
2      1                                                               0.668**
0.087
     exchange
3      1                                                               0.067
0.180
     exchange_trad
4      1                                                               0.398
0.238
```

```
     f4_seipc
5      2                                                          0.016
0.312
6      3                                                         -0.241
0.333
7      4                                                         -0.381
0.354
     m4_seipc
8      2                                                         -0.308
0.320
9      3                                                         -0.291
0.319
10     4                                                         -0.742*
0.354
     m3_physatt4
11     3                                                          1.806**
0.244
12     4                                                          1.310**
0.256
13     5                                                         -0.184
0.320
     f3_physatt4
14     3                                                          1.599**
0.250
15     4                                                          1.375**
0.258
16     5                                                          0.191
0.297
     f4_seipc.f3_physatt4
17     2.3                                                        0.044
0.353
18     2.4                                                       -0.035
0.357
19     2.5                                                        0.299
0.397
20     3.3                                                        0.048
0.369
21     3.4                                                        0.425
0.373
22     3.5                                                        0.875*
0.410
23     4.3                                                       -0.053
0.386
24     4.4                                                        0.594
0.391
25     4.5                                                        1.363**
0.425
     m4_seipc.m3_physatt4
26     2.3                                                        0.380
0.354
27     2.4                                                        0.349
0.365
28     2.5                                                        0.334
0.447
29     3.3                                                        0.220
0.348
30     3.4                                                        0.278
0.362
31     3.5                                                        0.548
0.437
32     4.3                                                        0.375
0.376
33     4.4                                                        0.837*
```

```
0.389
34     4.5                                                                  1.328**
0.454
35   _cons                                                                 -0.922**
0.299
   lnalpha
36   _cons                                                                 -2.532**
0.302
--------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -721.5859   -519.8956     36     1111.791    1239.418
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .80561601   .66803929   .06710215   .39822382   .01584962  -.24086222
-.38129936

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.30768758  -.29057713  -.74197517   1.8056914   1.3100715  -.18392614
1.5992387

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.3750953   .19078984   .04358683  -.03522645   .29862163   .04813017
.42457926

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .87519932  -.05284604   .59372678    1.363385   .38043882   .34910731
.33410214

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   .22008539   .27764638   .54759209   .37514885   .83679481    1.327702
-.92224829

       lnalpha:
         _cons
y1  -2.5318302

Contains data from ...\temp_mim.dta
```

```
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .8018084           0   .8018084   .8018084
        v1_1 |       256    .0073958           0   .0073958   .0073958
       se1_1 |       256    .0859986           0   .0859986   .0859986
        b1_2 |       256    .6745037           0   .6745037   .6745037
-------------+--------------------------------------------------------
        v1_2 |       256    .0078016           0   .0078016   .0078016
       se1_2 |       256    .0883265           0   .0883265   .0883265
        b1_3 |       256     .289364           0    .289364    .289364
        v1_3 |       256    .0145289           0   .0145289   .0145289
       se1_3 |       256    .1205359           0   .1205359   .1205359
-------------+--------------------------------------------------------
        b2_1 |       256     .805616           0    .805616    .805616
        v2_1 |       256     .007229           0    .007229    .007229
       se2_1 |       256    .0850232           0   .0850232   .0850232
        b2_2 |       256    .6680393           0   .6680393   .6680393
        v2_2 |       256    .0076467           0   .0076467   .0076467
-------------+--------------------------------------------------------
       se2_2 |       256    .0874454           0   .0874454   .0874454
        b2_3 |       256    .0671021           0   .0671021   .0671021
        v2_3 |       256    .0324534           0   .0324534   .0324534
```

```
       se2_3 |       256    .1801481           0   .1801481   .1801481
        b2_4 |       256    .3982238           0   .3982238   .3982238
-------------+--------------------------------------------------------
        v2_4 |       256    .0565111           0   .0565111   .0565111
       se2_4 |       256    .2377207           0   .2377207   .2377207
          mj |       256           8           0          8          8
(255 observations deleted)
file ...\temp8.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 9
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507      41.101    23.74252  -171.4718   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -171.4718      37.82405
        2 |     37.83058       42.3788
        3 |     42.40791       51.9738
        4 |     51.98574      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.88077    18.11318  -129.7534   140.2893

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
----------+---------------------------
        1 |    -129.7534      32.47864
        2 |     32.50366      40.23708
        3 |     40.25619      52.80656
        4 |     52.84361      140.2893
--------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
```

```
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
          |
        2 |    0     1     0     0
          |  .25   .25   .25   .25
          |
        3 |    0     0     1     0
          |  .25   .25   .25   .25
          |
        4 |    0     0     0     1
          |  .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
```

```
        2 |  .25   .25   .25   .25
          |    1     0     0     0
          |
        3 |  .25   .25   .25   .25
          |    0     1     0     0
          |
        4 |  .25   .25   .25   .25
          |    0     0     1     0
          |
        5 |  .25   .25   .25   .25
          |    0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 | .375     0  .375  .375
        3 | .375  .375     0  .375
        4 | .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 | .375     0  .375  .375
        4 | .375  .375     0  .375
        5 | .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
```

```
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.753
   Log likelihood:
-530.746
   LR chi square:
382.015
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.265
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.629**
0.092
     physatt_endog
2      1                                                                    0.673**
0.093
     exchange
3      1                                                                    0.202
0.125
     f4_seipc
4      2                                                                   -0.072
0.305
5      3                                                                   -0.695*
0.348
6      4                                                                   -0.691*
0.351
     m4_seipc
7      2                                                                    0.175
0.317
8      3                                                                   -0.105
0.336
9      4                                                                   -0.477
0.366
     m3_physatt4
10     3                                                                    1.983**
0.261
11     4                                                                    1.475**
```

```
0.271
12     5                                                                0.015
0.322
     f3_physatt4
13     3                                                                1.513**
0.250
14     4                                                                1.274**
0.257
15     5                                                                0.211
0.290
     f4_seipc.f3_physatt4
16     2.3                                                              0.005
0.355
17     2.4                                                              0.034
0.360
18     2.5                                                              0.338
0.397
19     3.3                                                              0.444
0.392
20     3.4                                                              0.834*
0.398
21     3.5                                                              1.176**
0.434
22     4.3                                                              0.164
0.396
23     4.4                                                              0.831*
0.403
24     4.5                                                              1.496**
0.437
     m4_seipc.m3_physatt4
25     2.3                                                             -0.090
0.356
26     2.4                                                             -0.265
0.370
27     2.5                                                             -0.372
0.451
28     3.3                                                              0.055
0.372
29     3.4                                                              0.189
0.385
30     3.5                                                              0.383
0.448
31     4.3                                                              0.180
0.399
32     4.4                                                              0.636
0.411
33     4.5                                                              0.969*
0.472
34   _cons                                                             -0.884**
0.307
   lnalpha
35   _cons                                                             -2.221**
0.256
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
```

```
           . |    256    -721.753   -530.7456     35     1131.491    1255.572
----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .62917341   .67261016   .20209825  -.07152727  -.69479896  -.69077998
.1750729

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   -.1046852  -.47686124   1.9825443   1.4748239   .01529845   1.5134699
1.2744072

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .21144508    .0046454   .03415491   .33773705   .44441436   .83393901
1.1763527

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .16436897   .83083562   1.4956099   -.0903753  -.26481281  -.37151814
.05540768

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1   .18903146   .38293633   .17960656   .63566131   .96925385  -.88398179
-2.2206797
nbreg, with gender-stereotypical exchange term
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-721.753
   Log likelihood:
-530.684
   LR chi square:
382.138
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.265
   Dispersion:
 mean
```

```
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.628**
0.092
     physatt_endog
2      1                                                                    0.674**
0.093
     exchange
3      1                                                                    0.250
0.186
     exchange_trad
4      1                                                                   -0.088
0.251
     f4_seipc
5      2                                                                   -0.081
0.307
6      3                                                                   -0.716*
0.354
7      4                                                                   -0.721*
0.361
     m4_seipc
8      2                                                                    0.185
0.318
9      3                                                                   -0.087
0.339
10     4                                                                   -0.452
0.373
     m3_physatt4
11     3                                                                    1.979**
0.262
12     4                                                                    1.460**
0.275
13     5                                                                   -0.010
0.330
     f3_physatt4
14     3                                                                    1.518**
0.251
15     4                                                                    1.291**
0.261
16     5                                                                    0.236
0.298
     f4_seipc.f3_physatt4
17     2.3                                                                  0.005
0.355
18     2.4                                                                  0.036
0.360
19     2.5                                                                  0.339
0.397
20     3.3                                                                  0.452
0.393
21     3.4                                                                  0.840*
0.399
22     3.5                                                                  1.182**
0.434
23     4.3                                                                  0.174
```

```
0.397
24     4.4                                                                  0.839*
0.404
25     4.5                                                                  1.501**
0.437
     m4_seipc.m3_physatt4
26     2.3                                                                 -0.093
0.356
27     2.4                                                                 -0.266
0.370
28     2.5                                                                 -0.372
0.451
29     3.3                                                                  0.052
0.372
30     3.4                                                                  0.186
0.385
31     3.5                                                                  0.383
0.448
32     4.3                                                                  0.172
0.400
33     4.4                                                                  0.633
0.411
34     4.5                                                                  0.970*
0.472
35   _cons                                                                 -0.885**
0.307
   lnalpha
36   _cons                                                                 -2.220**
0.256
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256    -721.753   -530.6842     36     1133.368    1260.995
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .62830058   .67403563   .25037215  -.08781612  -.08138246  -.71647923
-.72124855

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .18487001  -.08711445  -.45181879   1.9787993    1.459698  -.00986462
1.517957

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.2907112   .23592259   .00549045   .03620125   .33921666   .45211773
```

```
.84030892

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.1818477   .17430607   .83939482   1.5008749  -.09313071  -.26647419
-.3718165

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1     .051709   .18552653   .38300828   .17249554   .63316409   .96992144
-.88518648

       lnalpha:
         _cons
y1  -2.2202487

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
               storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
-------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
```

```
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .6291734           0   .6291734   .6291734
        v1_1 |       256    .0084046           0   .0084046   .0084046
       se1_1 |       256    .0916767           0   .0916767   .0916767
        b1_2 |       256    .6726102           0   .6726102   .6726102
-------------+---------------------------------------------------------
        v1_2 |       256    .0087163           0   .0087163   .0087163
       se1_2 |       256     .093361           0    .093361    .093361
        b1_3 |       256    .2020983           0   .2020983   .2020983
        v1_3 |       256    .0157137           0   .0157137   .0157137
       se1_3 |       256    .1253545           0   .1253545   .1253545
-------------+---------------------------------------------------------
        b2_1 |       256    .6283005           0   .6283005   .6283005
        v2_1 |       256    .0084172           0   .0084172   .0084172
       se2_1 |       256    .0917452           0   .0917452   .0917452
        b2_2 |       256    .6740356           0   .6740356   .6740356
        v2_2 |       256    .0087395           0   .0087395   .0087395
-------------+---------------------------------------------------------
       se2_2 |       256    .0934855           0   .0934855   .0934855
        b2_3 |       256    .2503721           0   .2503721   .2503721
        v2_3 |       256    .0346188           0   .0346188   .0346188
       se2_3 |       256    .1860612           0   .1860612   .1860612
        b2_4 |       256   -.0878161           0  -.0878161  -.0878161
-------------+---------------------------------------------------------
        v2_4 |       256    .0627721           0   .0627721   .0627721
       se2_4 |       256    .2505436           0   .2505436   .2505436
          mj |       256           9           0          9          9
(255 observations deleted)
file ...\temp9.dta saved
basic model - combines relp duration & union status groups
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)
(15070 observations deleted)
imputation is 10
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    f4_seipc |      1507    2.500332    1.117514          1          4
     f4_seip |      1507    40.46122    25.66198  -191.7769   76.53989

--------------------------------------
 f4_seipc | min(f4_seip)  max(f4_seip)
----------+---------------------------
        1 |    -191.7769      37.89674
        2 |     37.91525      42.18861
        3 |     42.19273      51.87115
        4 |     51.91797      76.53989
--------------------------------------
(1131 missing values generated)
(378 real changes made)
(378 real changes made)
(376 real changes made)

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    m4_seipc |      1507    2.500332    1.117514          1          4
     m4_seip |      1507    43.93036    16.40669   -94.6198   127.2873

--------------------------------------
 m4_seipc | min(m4_seip)  max(m4_seip)
```

```
----------+---------------------------
        1 |     -94.6198      32.64328
        2 |     32.65011      40.78864
        3 |     40.81456      52.10224
        4 |     52.21574      127.2873
-------------------------------------

-> tabulation of f4_seipc

   f4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00

-> tabulation of m4_seipc

   m4_seipc |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        376       24.95       24.95
          2 |        377       25.02       49.97
          3 |        378       25.08       75.05
          4 |        376       24.95      100.00
------------+-----------------------------------
      Total |      1,507      100.00
(64 real changes made)

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
        2 |    0     1     0     0
        3 |    0     0     1     0
        4 |    0     0     0     1
----------------------------------
(64 real changes made)

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+-----------------------
        2 |    1     0     0     0
        3 |    0     1     0     0
        4 |    0     0     1     0
        5 |    0     0     0     1
----------------------------------

----------------------------------
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+-----------------------
        1 |    1     0     0     0
          |  .25   .25   .25   .25
```

```
           |
         2 |     0     1     0     0
           |   .25   .25   .25   .25
           |
         3 |     0     0     1     0
           |   .25   .25   .25   .25
           |
         4 |     0     0     0     1
           |   .25   .25   .25   .25
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |   .25   .25   .25   .25
           |     1     0     0     0
           |
         3 |   .25   .25   .25   .25
           |     0     1     0     0
           |
         4 |   .25   .25   .25   .25
           |     0     0     1     0
           |
         5 |   .25   .25   .25   .25
           |     0     0     0     1
----------------------------------
(72 real changes made)

----------------------------------
           |         m4_seipc
 f4_seipc  |     1     2     3     4
----------+-----------------------
         1 |     0  .375  .375  .375
         2 |  .375     0  .375  .375
         3 |  .375  .375     0  .375
         4 |  .375  .375  .375     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |     2     3     4     5
----------+-----------------------
         2 |     0  .375  .375  .375
         3 |  .375     0  .375  .375
         4 |  .375  .375     0  .375
         5 |  .375  .375  .375     0
----------------------------------
(36 real changes made)

----------------------------------
```

```
          |        m4_seipc
 f4_seipc |    1     2     3     4
----------+----------------------
        1 |    0  .375  .375  .375
        2 |    0     0  .375  .375
        3 |    0     0     0  .375
        4 |    0     0     0     0
----------------------------------

----------------------------------
RECODE of |
m3_physat |
t (W3 -   |
Interview |
er-rated  |
physical  |
attractiv |  RECODE of f3_physatt
eness)    |    2     3     4     5
----------+----------------------
        2 |    0  .375  .375  .375
        3 |    0     0  .375  .375
        4 |    0     0     0  .375
        5 |    0     0     0     0
----------------------------------
nbreg, without gender-stereotypical exchange term (only gender-symmetric exchange)
------------------------------------------------------------------------------
-------
   Negative binomial regression
------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-720.089
   Log likelihood:
-532.412
   LR chi square:
375.354
   Model degrees of freedom:
   33
   Pseudo R-squared:
0.261
   Dispersion:
 mean
   Prob:
0.000
------------------------------------------------------------------------------
-------
nr Effect                                                                Coeff
 s.e.
------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                 0.703**
0.093
     physatt_endog
2      1                                                                 0.700**
0.095
```

```
     exchange
3      1                                                          0.244
0.126
     f4_seipc
4      2                                                         -0.199
0.311
5      3                                                         -0.707*
0.348
6      4                                                         -0.618
0.341
     m4_seipc
7      2                                                          0.091
0.322
8      3                                                         -0.166
0.340
9      4                                                         -0.323
0.351
     m3_physatt4
10     3                                                          1.979**
0.262
11     4                                                          1.415**
0.272
12     5                                                         -0.018
0.322
     f3_physatt4
13     3                                                          1.427**
0.252
14     4                                                          1.254**
0.257
15     5                                                          0.192
0.290
     f4_seipc.f3_physatt4
16     2.3                                                        0.220
0.360
17     2.4                                                        0.189
0.365
18     2.5                                                        0.376
0.404
19     3.3                                                        0.544
0.392
20     3.4                                                        0.843*
0.398
21     3.5                                                        1.170**
0.434
22     4.3                                                        0.111
0.388
23     4.4                                                        0.726
0.395
24     4.5                                                        1.460**
0.428
     m4_seipc.m3_physatt4
25     2.3                                                       -0.080
0.362
26     2.4                                                        0.018
0.374
27     2.5                                                       -0.148
0.448
28     3.3                                                        0.168
0.376
29     3.4                                                        0.235
0.390
30     3.5                                                        0.460
0.452
```

```
31     4.3                                                                  0.026
0.385
32     4.4                                                                  0.491
0.399
33     4.5                                                                  0.780
0.461
34   _cons                                                                 -0.886**
0.307
   lnalpha
35   _cons                                                                 -2.218**
0.257
--------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -720.0889   -532.4118     35     1134.824    1258.905
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note

b1[1,35]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .70311479   .69955373   .24393297  -.19921405  -.70663911  -.61808031
.09139132

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1  -.16562946  -.32261967   1.9789462     1.41461  -.01759015   1.4270895
1.2539209

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   .19205783   .22007464   .18854883   .37602586   .54377104   .84287364
1.1702357

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   .11084769   .72561349   1.4600402  -.07954186   .01820962  -.14808713
.16783629

         count:      count:      count:      count:      count:      count:
lnalpha:
         _x_29       _x_30       _x_31       _x_32       _x_33       _cons
_cons
y1    .2351549   .45964788   .02564465   .49139076   .77954425  -.88557959
-2.2179416
nbreg, with gender-stereotypical exchange term
--------------------------------------------------------------------------------
-------
```

```
   Negative binomial regression
-------------------------------------------------------------------------------------
-------
   Dependent variable
count
   Optimization:
   ml
   Number of observations:
  256
   Initial log likelihood:
-720.089
   Log likelihood:
-532.375
   LR chi square:
375.427
   Model degrees of freedom:
   34
   Pseudo R-squared:
0.261
   Dispersion:
 mean
   Prob:
0.000
-------------------------------------------------------------------------------------
-------
nr Effect                                                                  Coeff
 s.e.
-------------------------------------------------------------------------------------
-------
   count
     sei_endog
1      1                                                                    0.704**
0.093
     physatt_endog
2      1                                                                    0.699**
0.095
     exchange
3      1                                                                    0.207
0.186
     exchange_trad
4      1                                                                    0.067
0.249
     f4_seipc
5      2                                                                   -0.191
0.313
6      3                                                                   -0.691
0.353
7      4                                                                   -0.595
0.351
     m4_seipc
8      2                                                                    0.085
0.323
9      3                                                                   -0.179
0.344
10     4                                                                   -0.342
0.358
     m3_physatt4
11     3                                                                    1.982**
0.262
12     4                                                                    1.426**
0.275
13     5                                                                    0.001
0.329
```

```
     f3_physatt4
14     3                                                                1.424**
0.252
15     4                                                                1.241**
0.262
16     5                                                                0.173
0.299
     f4_seipc.f3_physatt4
17     2.3                                                              0.218
0.360
18     2.4                                                              0.187
0.364
19     2.5                                                              0.375
0.403
20     3.3                                                              0.538
0.392
21     3.4                                                              0.838*
0.398
22     3.5                                                              1.168**
0.434
23     4.3                                                              0.103
0.389
24     4.4                                                              0.719
0.395
25     4.5                                                              1.457**
0.428
     m4_seipc.m3_physatt4
26     2.3                                                             -0.079
0.362
27     2.4                                                              0.019
0.374
28     2.5                                                             -0.147
0.448
29     3.3                                                              0.171
0.376
30     3.4                                                              0.238
0.390
31     3.5                                                              0.460
0.452
32     4.3                                                              0.031
0.386
33     4.4                                                              0.495
0.399
34     4.5                                                              0.780
0.461
35   _cons                                                             -0.885**
0.307
   lnalpha
36   _cons                                                             -2.221**
0.258
------------------------------------------------------------------------------------
-------
*  p < .05
** p < .01

Akaike's information criterion and Bayesian information criterion

-----------------------------------------------------------------------------
       Model |    Obs    ll(null)   ll(model)     df          AIC         BIC
-------------+---------------------------------------------------------------
           . |    256   -720.0889   -532.3753     36     1136.751    1264.377
-----------------------------------------------------------------------------
               Note:  N=Obs used in calculating BIC; see [R] BIC note
```

```
b2[1,36]
         count:      count:      count:      count:      count:      count:
count:
          _x_1        _x_2        _x_3        _x_4        _x_5        _x_6
_x_7
y1   .70367615   .69868971   .20712453   .06725403  -.19120712  -.69058065
-.59507255

         count:      count:      count:      count:      count:      count:
count:
          _x_8        _x_9       _x_10       _x_11       _x_12       _x_13
_x_14
y1   .08461146  -.17939105  -.34190986   1.9818128   1.4261024   .00090338
1.4238101

         count:      count:      count:      count:      count:      count:
count:
         _x_15       _x_16       _x_17       _x_18       _x_19       _x_20
_x_21
y1   1.2412764   .17252484   .21785415   .18671763    .3754465   .53837538
.83776521

         count:      count:      count:      count:      count:      count:
count:
         _x_22       _x_23       _x_24       _x_25       _x_26       _x_27
_x_28
y1   1.1676586   .10298077   .71931474   1.4570133  -.07850697   .01901551
-.14706289

         count:      count:      count:      count:      count:      count:
count:
         _x_29       _x_30       _x_31       _x_32       _x_33       _x_34
_cons
y1   .17101753   .23784403   .46031316   .03054506   .49491866   .77999364
-.88465576

       lnalpha:
         _cons
y1  -2.2209119

Contains data from ...\temp_mim.dta
  obs:           256                          National Longitudinal Study of
Adolescent
                                                 Health (Add Health), 1994-2008: Wave
I
 vars:            23                          2 Sep 2014 16:33
 size:        22,784
-------------------------------------------------------------------------------
-------
              storage   display    value
variable name   type    format     label      variable label
-------------------------------------------------------------------------------
-------
sei_endog       byte    %9.0g
b1_1            float   %9.0g
v1_1            float   %9.0g
se1_1           float   %9.0g
b1_2            float   %9.0g
v1_2            float   %9.0g
se1_2           float   %9.0g
b1_3            float   %9.0g
v1_3            float   %9.0g
```

```
se1_3           float   %9.0g
b2_1            float   %9.0g
v2_1            float   %9.0g
se2_1           float   %9.0g
b2_2            float   %9.0g
v2_2            float   %9.0g
se2_2           float   %9.0g
b2_3            float   %9.0g
v2_3            float   %9.0g
se2_3           float   %9.0g
b2_4            float   %9.0g
v2_4            float   %9.0g
se2_4           float   %9.0g
mj              float   %9.0g
--------------------------------------------------------------------------------
-------
Sorted by:
     Note:  dataset has changed since last saved

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   sei_endog |       256         .25    .4338609          0          1
        b1_1 |       256    .7031148           0   .7031148   .7031148
        v1_1 |       256    .0086178           0   .0086178   .0086178
       se1_1 |       256    .0928322           0   .0928322   .0928322
        b1_2 |       256    .6995537           0   .6995537   .6995537
-------------+--------------------------------------------------------
        v1_2 |       256    .0089364           0   .0089364   .0089364
       se1_2 |       256    .0945325           0   .0945325   .0945325
        b1_3 |       256     .243933           0    .243933    .243933
        v1_3 |       256    .0159383           0   .0159383   .0159383
       se1_3 |       256    .1262472           0   .1262472   .1262472
-------------+--------------------------------------------------------
        b2_1 |       256    .7036762           0   .7036762   .7036762
        v2_1 |       256    .0086056           0   .0086056   .0086056
       se2_1 |       256    .0927661           0   .0927661   .0927661
        b2_2 |       256    .6986897           0   .6986897   .6986897
        v2_2 |       256    .0089323           0   .0089323   .0089323
-------------+--------------------------------------------------------
       se2_2 |       256    .0945109           0   .0945109   .0945109
        b2_3 |       256    .2071245           0   .2071245   .2071245
        v2_3 |       256    .0345189           0   .0345189   .0345189
       se2_3 |       256    .1857927           0   .1857927   .1857927
        b2_4 |       256     .067254           0    .067254    .067254
-------------+--------------------------------------------------------
        v2_4 |       256    .0618986           0   .0618986   .0618986
       se2_4 |       256    .2487942           0   .2487942   .2487942
          mj |       256          10           0         10         10
(255 observations deleted)
file ...\temp10.dta saved

. *** see Rubin, D.B. (1987) Multiple Imputation for Nonresponse in Surveys. J Wiley
& Sons
> , NY ***;
. *** also see sites.stat.psu.edu/~jls/mifaq.html#howto ***;
. use "...\temp1", clear ;
(National Longitudinal Study of Adolescent Health (Add Health), 1994-2008: Wave I)

. forvalues i=2/10 { ;
  2. append using "...\temp`i'" ;
  3. } ;

. ** p-values for model without gender-stereotypical term **;
```

```
. forvalues j=1/3 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b1_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v1_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b1_`j') ;
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b1_`j' avg_b`j' v1_`j' var_b`j' ;
  8. display "p-value for b1_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_1 |        10     .685426    .0728517   .5888528   .8018084
      avg_b1 |        10    .6854261           0   .6854261   .6854261
        v1_1 |        10    .0082983    .0005698   .0072061   .0088706
      var_b1 |        10    .0141364           0   .0141364   .0141364
p-value for b1_1
8.171e-09

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_2 |        10    .6711827    .0228112   .6277667   .6995537
      avg_b2 |        10    .6711827           0   .6711827   .6711827
        v1_2 |        10    .0085675    .0005291   .0075065   .0090683
      var_b2 |        10    .0091399           0   .0091399   .0091399
p-value for b1_2
2.210e-12

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b1_3 |        10    .2107656    .0768206    .030016    .289364
      avg_b3 |        10    .2107656           0   .2107656   .2107656
        v1_3 |        10    .0156422    .0007709   .0142982   .0166146
      var_b3 |        10    .0221337           0   .0221337   .0221337
p-value for b1_3
.1565758

. drop avg_* wi_* bi_* var_* abv_* ;

. ** p-values for model with gender-stereotypical term **;
. forvalues j=1/4 { ;
  2. * we need to average the coef estimates *;
. egen avg_b`j'=mean(b2_`j') ;
  3. * we need to average the within-imputation variance *;
. egen wi_v`j'=mean(v2_`j') ;
  4. * we need the between-imputation variance *;
. egen bi_sd`j' = sd(b2_`j') ;
  5. gen bi_var`j' = (bi_sd`j')^2 ;
  6. * calculate total variance *;
. * total variance = average within-imputation variance + (1 +
1/m)*between-imputation vari
> ance *;
. gen var_b`j' = wi_v`j' + (11/10)*bi_var`j' ;
  7. sum b2_`j' avg_b`j' v2_`j' var_b`j' ;
```

```
  8. display "p-value for b2_`j'" ;
  9. gen abv_avg_b`j'=abs(avg_b`j') ;
 10. display (1-normal(abv_avg_b`j'/sqrt(var_b`j')))*2 ;
 11. } ;

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_1 |        10    .6867946    .0732768   .5902264    .805616
      avg_b1 |        10    .6867946           0   .6867946   .6867946
        v2_1 |        10    .0082366    .0005886   .0071354   .0088083
      var_b1 |        10    .0141431           0   .0141431   .0141431
p-value for b2_1
7.693e-09

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_2 |        10    .6686164    .0225806   .6247533   .6986897
      avg_b2 |        10    .6686164           0   .6686164   .6686164
        v2_2 |        10    .0085191    .0005487   .0074479   .0090114
      var_b2 |        10    .0090799           0   .0090799   .0090799
p-value for b2_2
2.271e-12

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_3 |        10    .1196051    .0890653  -.0676308   .2503721
      avg_b3 |        10    .1196051           0   .1196051   .1196051
        v2_3 |        10    .0345951    .0016499   .0321589   .0369815
      var_b3 |        10     .043321           0    .043321    .043321
p-value for b2_3
.56553051

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
        b2_4 |        10    .1637876    .1552373  -.0878161   .3982238
      avg_b4 |        10    .1637876           0   .1637876   .1637876
        v2_4 |        10    .0616924    .0033882   .0563628   .0661227
      var_b4 |        10    .0882009           0   .0882009   .0882009
p-value for b2_4
.58129203

. * Average BIC for model w/o gender-trad (gender-stereotpyical exchange) term ;
. display (1238.889 + 1259.169 + 1268.6   + 1253.695 + 1230.934 + 1254.042 +
1250.427 + 123
> 6.665 + 1255.572 + 1258.905)/10 ;
1250.6898

. * Average BIC for model w/ gender-trad term ;
. display (1244.01  + 1262.879 + 1273.674 + 1258.618 + 1235.582 + 1258.843 +
1255.915 + 123
> 9.418 + 1260.995 + 1264.377)/10 ;
1255.4311

. * Note--lower BIC indicates better fit so this suggests that the model without the
gender
> -trad (gender-stereotpyical exchange) term fits the data better ;
. *** End Program ***;
. clear ;

.  log close ;
      name:  <unnamed>
       log:  ...\program4--table 7.log
  log type:  text
```

closed on: 2 Sep 2014, 16:33:46
