


```

AFC_Demo_Part1_FIML_v3.log
<1 1 1 0 1 1 1 1 1 1 0 1
<1 1 1 1 0 1 1 0 1 1 1 1 1
<1 1 1 1 1 0 1 0 1 1 1 1 1
<1 1 1 1 1 0 1 1 1 1 1 1 1
<1 1 1 1 1 1 0 0 1 1 0 0 1
<1 1 1 1 1 1 0 0 1 1 1 0 0
<1 1 1 1 1 1 0 1 1 1 1 1 0
<1 1 1 1 1 1 1 0 1 1 1 1 1
<1 1 1 1 1 1 1 1 0 1 0 0 1
<1 1 1 1 1 1 1 1 0 1 1 1 1
<1 1 1 1 1 1 1 1 1 0 1 1 1
<1 1 1 1 1 1 1 1 1 1 0 0 0
<1 1 1 1 1 1 1 1 1 1 0 1 0
<1 1 1 1 1 1 1 1 1 1 0 1 0
<1 1 1 1 1 1 1 1 1 1 0 1 0
<1 1 1 1 1 1 1 1 1 1 0 1 0
<1 1 1 1 1 1 1 1 1 1 0 1 0
100%
Variables are (1) race (2) hiv_meds (3) soc_supp (4) hiv_mnths (5) dss1 (6)
med_worries (7) stigma (8) dss2
(9) gay_harr (10) sex_orn (11) hetrosxi sm (12) visit6m

```

```

*** Perform the typical analyses with listwise deletion ***
* Unadjusted regressions for gay-related harrassment *
// HC3 (heteroskedastic-consistent robust standard errors - type 3)
// included as a just-in-case to guard against possible assumption
// violations
regress gay_harr age, hc3
Linear regression Number of obs = 551
F( 1, 549) = 6.34
Prob > F = 0.0121
R-squared = 0.0119
Root MSE = 2.1837

```

gay_harr	Coef.	Robust HC3 Std. Err.	t	P>|t|	[95% Conf. Interval]
age	-.0237085	.0094163	-2.52	0.012	-.0422049 -.0052121
_cons	5.592427	.359394	15.56	0.000	4.886471 6.298382

```

regress gay_harr i.visit6m, hc3
Linear regression Number of obs = 435
F( 1, 433) = 0.42
Prob > F = 0.5190
R-squared = 0.0010
Root MSE = 2.2061

```

gay_harr	Coef.	Robust HC3 Std. Err.	t	P>|t|	[95% Conf. Interval]
1.visit6m	.1479397	.2291951	0.65	0.519	-.3025336 .598413
_cons	4.559701	.1903641	23.95	0.000	4.185549 4.933854

```

AFC_Demo_Part1_FIML_v3.log
// Age is significantly negatively related to harassment; doctor visits
// were unrelated to harassment
tab race

```

Recoded Race/Ethnicity	Freq.	Percent	Cum.
1. White	87	15.29	15.29
2. Black	346	60.81	76.10
3. Hispanic	113	19.86	95.96
4. Other	23	4.04	100.00
Total	569	100.00	

```

regress gay_harr i.race, hc3
Linear regression Number of obs = 550
F( 3, 546) = 5.35
Prob > F = 0.0012
R-squared = 0.0246
Root MSE = 2.1734

```

gay_harr	Coef.	Robust HC3 Std. Err.	t	P>|t|	[95% Conf. Interval]
race					
2	-.8842539	.2356876	-3.75	0.000	-1.347219 -.4212885
3	-.9117738	.2989165	-3.05	0.002	-1.498941 -.3246066
4	-.1644178	.6037273	-0.27	0.785	-1.35033 1.021495
_cons	5.425287	.2031607	26.70	0.000	5.026215 5.82436

```

test 2.race 3.race 4.race
( 1) 2.race = 0
( 2) 3.race = 0
( 3) 4.race = 0
F( 3, 546) = 5.35
Prob > F = 0.0012

```

```

tab sex_orn

```

Recoded Sexual Orientation	Freq.	Percent	Cum.
1. Gay	406	74.09	74.09
2. Straight	26	4.74	78.83
3. Bisexual	95	17.34	96.17
4. Not sure/Other	21	3.83	100.00
Total	548	100.00	

```

regress gay_harr i.sex_orn, hc3
Linear regression Number of obs = 540

```



```

AFC_Demo_Part1_FIML_v3.l og
Structural equation model
Estimation method = ml
Log pseudolikelihood = -9872.9353
Number of obs = 340

```

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf. Interval]	
Structural						
gay_harr <-						
_race_2	-.6753183	.2952255	-2.29	0.022	-1.25395	-.096687
_race_3	-.6316995	.3583293	-1.76	0.078	-1.334012	.0706129
_race_4	-.4935752	.5978491	-0.83	0.409	-1.665338	.6781876
sex_orn_2	-.7743663	.8122235	-0.95	0.340	-2.366295	.8175625
sex_orn_3	-.3243952	.3127702	-1.04	0.300	-.9374136	.2886232
sex_orn_4	-.2119865	.8623105	-0.25	0.806	-1.902084	1.478111
age	-.0278343	.0128872	-2.16	0.031	-.0530928	-.0025758
visitm	.2536384	.242029	1.05	0.295	-.2207297	.7280064
hiv_meds	-.1066944	.2416625	-0.44	0.659	-.5803442	.3669554
hiv_mnths	.0011494	.0016057	0.72	0.474	-.0019978	.0042965
stigma	.0974755	.0169162	5.76	0.000	.0643205	.1306306
hetrosxism	-.0217164	.0271428	-0.80	0.424	-.0749153	.0314825
dss1	.2346921	.0906061	2.59	0.010	.0571075	.4122768
dss2	.0436079	.0804931	0.54	0.588	-.1141557	.2013175
med_worries	.000622	.0214675	0.03	0.977	-.0414535	.0426975
soc_supp	.0051416	.0147988	0.35	0.728	-.0238634	.0341467
_cons	3.460902	1.106287	3.13	0.002	1.292619	5.629185

Variance				
e.gay_harr	3.914834	.2393788	3.472684	4.41328

```
. test _race_2 _race_3 _race_4
```

- (1) [gay_harr]_race_2 = 0
- (2) [gay_harr]_race_3 = 0
- (3) [gay_harr]_race_4 = 0

```

chi2( 3) = 5.45
Prob > chi2 = 0.1416

```

```
. test _sex_orn_2 _sex_orn_3 _sex_orn_4
```

- (1) [gay_harr]_sex_orn_2 = 0
- (2) [gay_harr]_sex_orn_3 = 0
- (3) [gay_harr]_sex_orn_4 = 0

```

chi2( 3) = 1.70
Prob > chi2 = 0.6358

```

```
. // Similar results to OLS adjusted regression results from -regress-
```

```
. * Adjusted regression via -sem- with FIML missing data handling *
```

```

. xi: sem (gay_harr <- i.race i.sex_orn age ///
> visitm hiv_meds hiv_mnths ///
> stigma hetrosxism dss1 dss2 ///
> med_worries soc_supp), ///
> method(mlmv) vce(robust)
i.race _race_1-4 (naturally coded; _race_1 omitted)
i.sex_orn _sex_orn_1-4 (naturally coded; _sex_orn_1 omitted)
note: Missing values found in observed exogenous variables. Using the noxconditional
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AFC_Demo_Part1_FIML_v3.l og
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```

behavior. Specify the
forceconditional option to override this behavior.
Endogenous variables

```

```
Observed: gay_harr
```

```
Exogenous variables
```

```

Observed: _race_2 _race_3 _race_4 _sex_orn_2 _sex_orn_3 _sex_orn_4 age
visitm hiv_meds hiv_mnths stigma hetrosxism
dss1 dss2 med_worries soc_supp

```

```
Fitting saturated model:
```

```

Iteration 0: log pseudolikelihood = -16461.731
Iteration 1: log pseudolikelihood = -16332.699
Iteration 2: log pseudolikelihood = -16315.222
Iteration 3: log pseudolikelihood = -16314.797
Iteration 4: log pseudolikelihood = -16314.795
Iteration 5: log pseudolikelihood = -16314.795

```

```
Fitting baseline model:
```

```

Iteration 0: log pseudolikelihood = -16368.064
Iteration 1: log pseudolikelihood = -16368.038
Iteration 2: log pseudolikelihood = -16368.038

```

```
Fitting target model:
```

```

Iteration 0: log pseudolikelihood = -16314.795
Iteration 1: log pseudolikelihood = -16314.795

```

```

Structural equation model
Estimation method = mlmv
Log pseudolikelihood = -16314.795
Number of obs = 570

```

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf. Interval]	
Structural						
gay_harr <-						
_race_2	-.6240321	.2320135	-2.69	0.007	-1.07877	-.1692941
_race_3	-.6078948	.281783	-2.16	0.031	-1.160179	-.0556102
_race_4	-.3204101	.513865	-0.62	0.533	-1.327567	.6867467
sex_orn_2	-1.51293	.5445788	-2.78	0.005	-2.580285	-.4455752
sex_orn_3	-.4801617	.254761	-1.88	0.059	-.9794841	.0191606
sex_orn_4	.052359	.5254037	0.10	0.921	-.9774134	1.082131
age	-.0200278	.0100125	-2.00	0.045	-.0396519	-.0004038
visitm	-.2718264	.2166905	-1.25	0.210	-.1528791	.696532
hiv_meds	-.0229412	.1948604	-0.12	0.906	-.4048606	.3589781
hiv_mnths	.000675	.0013105	0.52	0.607	-.0018935	.0032434
stigma	.0913801	.0128528	7.11	0.000	.0661891	.116571
hetrosxism	-.0144975	.0211309	-0.69	0.493	-.0559133	.0269182
dss1	.32214	.0787027	4.09	0.000	.1678856	.4763944
dss2	-.0325109	.0682803	-0.48	0.634	-.1663378	.1013161
med_worries	.0128851	.0170527	0.76	0.450	-.0205375	.0463077
soc_supp	-.0028908	.0112075	-0.26	0.796	-.024857	.0190755
_cons	3.277043	.8372702	3.91	0.000	1.636024	4.918063

Mean						
_race_2	.6079645	.0204872	29.68	0.000	.5678104	.6481187
_race_3	.1986888	.0167439	11.87	0.000	.1658714	.2315063

AFC_Demo_Part1_FIML_v3. log						
_l race_4	.0404851	.008276	4.89	0.000	.0242644	.0567057
_l sex_orn_2	.0493162	.0094006	5.25	0.000	.0308914	.067741
_l sex_orn_3	.1762726	.0163922	10.75	0.000	.1441445	.2084007
_l sex_orn_4	.0391904	.0083838	4.67	0.000	.0227585	.0556223
age	37.23509	.4252988	87.55	0.000	36.40152	38.06866
visi t6m	.6941114	.0217446	31.92	0.000	.6514928	.73673
hi v_meds	.3905983	.0205655	18.99	0.000	.3502907	.4309058
hi v_mnth	70.31002	3.541851	19.85	0.000	63.36812	77.25192
sti gma	21.8728	.3447323	63.45	0.000	21.19714	22.54846
hetrosxi sm	9.967523	.254916	39.10	0.000	9.467897	10.46715
dss1	2.465584	.054171	45.51	0.000	2.359411	2.571757
dss2	2.497966	.0670324	37.27	0.000	2.366585	2.629347
med_worries	12.15581	.2350241	51.72	0.000	11.69517	12.61645
soc_supp	35.08899	.3794515	92.47	0.000	34.34528	35.8327

Variance						
e. gay_harr	3.944924	.1950561			3.580561	4.346364
_l race_2	.2382559	.0044258			.2297376	.2470901
_l race_3	.1591347	.0100879			.1405418	.1801873
_l race_4	.0387881	.0075957			.0264248	.0569357
_l sex_orn_2	.0452648	.0082444			.0316755	.064684
_l sex_orn_3	.1434366	.0105849			.1241211	.165758
_l sex_orn_4	.0368854	.0075901			.0246433	.055209
age	102.9202	4.449663			94.55828	112.0215
visi t6m	.214421	.0081555			.1990178	.2310173
hi v_meds	.2387042	.0044363			.2301656	.2475596
hi v_mnth	7013.79	472.4877			6146.262	8003.766
sti gma	65.44255	3.948738			58.14329	73.65816
hetrosxi sm	32.82972	1.900871			29.30771	36.77499
dss1	1.641341	.0835296			1.485526	1.8135
dss2	2.493832	.0934899			2.317166	2.683969
med_worries	30.73836	1.907751			27.21771	34.71442
soc_supp	80.49618	5.445346			70.50076	91.90872

Covariance						
_l race_2						
_l race_3	-.1207389	.0082923	-14.56	0.000	-.1369914	-.1044864
_l race_4	-.0245786	.0048791	-5.04	0.000	-.0341414	-.0150158
_l sex_orn_2	.0157051	.0038035	4.13	0.000	.0082504	.0231598
_l sex_orn_3	.0373326	.0071372	5.23	0.000	.023344	.0513211
_l sex_orn_4	.0081662	.0036561	2.23	0.026	.0010004	.015332
age	.4702726	.1975538	2.38	0.017	.0830742	.8574709
visi t6m	-.0255363	.0104446	-2.44	0.014	-.0460074	-.0050653
hi v_meds	.0161063	.0099814	1.61	0.107	-.0034568	.0356695
hi v_mnth	10.43553	1.559561	6.69	0.000	7.378847	13.49221
sti gma	.3935442	.1650502	2.38	0.017	.0700517	.7170367
hetrosxi sm	.460304	.1201418	3.83	0.000	.2248304	.6957777
dss1	-.0097215	.0262216	-0.37	0.711	-.0611148	.0416718
dss2	.1229682	.031707	3.88	0.000	.0608236	.1851128
med_worries	.2477003	.1134992	2.18	0.029	.0252458	.4701547
soc_supp	-.7454214	.1758521	-4.24	0.000	-1.090085	-.4007576

_l race_3						
_l race_4	-.0080253	.0017096	-4.69	0.000	-.011376	-.0046746
_l sex_orn_2	-.0079244	.0023606	-3.36	0.001	-.0125511	-.0032976
_l sex_orn_3	-.0172859	.0053803	-3.21	0.001	-.0278311	-.0067408
_l sex_orn_4	-.0005889	.0031958	-0.18	0.854	-.0068526	-.0056748
age	-.5064139	.1493868	-3.39	0.001	-.7992065	-.2136212
visi t6m	.0273202	.0077127	3.54	0.000	.0122035	.0424368
hi v_meds	.0024011	.0082436	0.29	0.771	-.013756	.0185583
hi v_mnth	-5.329716	1.228902	-4.34	0.000	-7.738321	-2.921111
sti gma	-.4933552	.1288401	-3.83	0.000	-.7458772	-.2408332
hetrosxi sm	-.2144779	.0998265	-2.15	0.032	-.4101342	-.0188215

AFC_Demo_Part1_FIML_v3. log						
dss1	-.0402276	.0205392	-1.96	0.050	-.0804837	.0000285
dss2	-.0657845	.0259249	-2.54	0.011	-.1165963	-.0149726
med_worries	-.237834	.0974241	-2.44	0.015	-.4287818	-.0468862
soc_supp	.265461	.138959	1.91	0.056	-.0068937	.5378158

_l race_4						
_l sex_orn_2	-.0019966	.0005451	-3.66	0.000	-.003065	-.0009281
_l sex_orn_3	-.0036276	.0024739	-1.47	0.143	-.0084765	.0012212
_l sex_orn_4	-.0015866	.0004599	-3.45	0.001	-.002488	-.0006853
age	-.0883206	.079089	-1.12	0.264	-.2433322	.0666909
visi t6m	-.0012472	.004121	-0.30	0.762	-.0093243	.0068299
hi v_meds	-.0016441	.0039641	-0.41	0.678	-.0094137	.0061254
hi v_mnth	-1.641427	.501584	-3.27	0.001	-2.624514	-.6583409
sti gma	.1647988	.0740642	2.23	0.026	.0196357	.3099619
hetrosxi sm	.0317201	.0452744	0.70	0.484	-.0570161	.1204562
dss1	-.0170948	.0101829	-1.68	0.093	-.037053	.0028634
dss2	-.0186119	.0106063	-1.75	0.079	-.0393999	.0021762
med_worries	-.0042044	.0396835	-0.11	0.916	-.0819826	.0735739
soc_supp	-.0136861	.069865	-0.20	0.845	-.150619	.1232468

_l sex_orn_2						
_l sex_orn_3	-.0081146	.0016761	-4.84	0.000	-.0113996	-.0048296
_l sex_orn_4	-.0017713	.0005065	-3.50	0.000	-.0027641	-.0007785
age	.3234842	.1112383	2.91	0.004	.1054611	.5415072
visi t6m	-.0003923	.0045393	-0.09	0.931	-.0092891	.0085045
hi v_meds	.0069543	.0047233	1.47	0.141	-.0023033	.0162119
hi v_mnth	2.885025	1.089039	2.65	0.008	.7505476	5.019501
sti gma	.0906149	.0696412	1.30	0.193	-.0458794	.2271091
hetrosxi sm	.3197042	.0797277	4.10	0.000	.1696877	.4724397
dss1	.0007092	.0122247	0.06	0.954	-.0232509	.0246692
dss2	.0205372	.0140834	1.46	0.145	-.0070657	.0481401
med_worries	.0450072	.0473165	0.95	0.342	-.0477314	.1377458
soc_supp	-.0877238	.0789501	-1.11	0.267	-.2424631	.0670156

_l sex_orn_3						
_l sex_orn_4	-.0066285	.0015026	-4.41	0.000	-.0095736	-.0036834
age	.0271501	.1845568	0.15	0.883	-.3345746	.3888748
visi t6m	-.0185744	.0088859	-2.09	0.037	-.0359904	-.0011585
hi v_meds	.0074488	.0080809	0.92	0.357	-.0083895	.0232871
hi v_mnth	2.705307	1.429703	1.89	0.058	-.0968602	5.507474
sti gma	.386856	.1488595	2.60	0.009	.0950967	.6786152
hetrosxi sm	.4274137	.1028468	4.16	0.000	.2258377	.6289897
dss1	.0219973	.022264	0.99	0.323	-.0216394	.065634
dss2	.0629995	.0276832	2.28	0.023	.0087414	.1172575
med_worries	.1087748	.0929475	1.17	0.242	-.073399	.2909486
soc_supp	-.395972	.1659076	-2.39	0.017	-.721145	-.0707989

_l sex_orn_4						
age	.0758388	.0904879	0.84	0.402	-.1015141	.2531918
visi t6m	-.0030404	.0040672	0.75	0.455	-.0049312	.0110119
hi v_meds	-.0003943	.0041874	-0.09	0.925	-.0086014	.0078128
hi v_mnth	1.151961	.9017349	1.28	0.201	-.6154067	2.919329
sti gma	.0293001	.0699158	0.42	0.675	-.1077323	.1663325
hetrosxi sm	.2045521	.0674907	3.03	0.002	.0722727	.3368315
dss1	-.0030256	.0123077	-0.25	0.806	-.0271483	.0210971
dss2	-.0041004	.0141247	-0.29	0.772	-.0317842	.0235835
med_worries	.0290141	.0518531	0.56	0.576	-.0726162	.1306444
soc_supp	-.2565067	.1095347	-2.34	0.019	-.4711907	-.0418228

age						
visi t6m	-.4998907	.2157939	-2.32	0.021	-.922839	-.0769423
hi v_meds	1.522552	.199287	7.64	0.000	1.131956	1.913147
hi v_mnth	431.5365	35.74438	12.07	0.000	361.4788	501.5943

AFC_Demo_Part1_FIML_v3.log							
stigma	-7.00797	3.375263	-2.08	0.038	-13.62336	-.3925755	
hetrosxi sm	-.1926595	2.546429	-0.08	0.940	-5.183569	4.79825	
dss1	1.998741	.5491163	3.64	0.000	.9224932	3.07499	
dss2	2.725778	.6816887	4.00	0.000	1.389693	4.061864	
med_worries	-1.67984	2.398058	-0.70	0.484	-6.379948	3.020267	
soc_supp	-2.595701	3.833702	-0.68	0.498	-10.10962	4.918218	

visi t6m							
hi v_meds	-.0005882	.010376	-0.06	0.955	-.0209248	.0197484	
hi v_mnth s	-5.860059	1.704725	-3.44	0.001	-9.201259	-2.518858	
stigma	-.403624	.1855724	-2.18	0.030	-.7673394	-.0399087	
hetrosxi sm	-.1104962	.1412539	-0.78	0.434	-.3873487	.1663563	
dss1	-.0133371	.0264341	-0.50	0.614	-.0651471	.0384728	
dss2	-.053083	.033879	-1.57	0.117	-.1194846	.0133185	
med_worries	-.197932	.1290495	-1.53	0.125	-.4508644	.0550004	
soc_supp	.1008402	.1961292	0.51	0.607	-.2835659	.4852463	

hi v_meds							
hi v_mnth s	13.96416	1.705314	8.19	0.000	10.6218	17.30651	
stigma	-.13172	.1686148	-0.78	0.435	-.462199	.198759	
hetrosxi sm	.1022441	.1266674	0.81	0.420	-.1460195	.3505077	
dss1	.0829987	.0270367	3.07	0.002	.0300077	.1359898	
dss2	.2266112	.0326498	6.94	0.000	.1626188	.2906037	
med_worries	-.1063303	.1149478	-0.93	0.355	-.3316239	.1189632	
soc_supp	-.0754446	.1846446	-0.41	0.683	-.4373414	.2864523	

hi v_mnth s							
stigma	-20.0828	28.3605	-0.71	0.479	-75.66835	35.50276	
hetrosxi sm	-1.588038	21.56139	-0.07	0.941	-43.84758	40.6715	
dss1	33.49297	4.76107	7.03	0.000	24.16144	42.82449	
dss2	49.51365	5.966671	8.30	0.000	37.81919	61.20811	
med_worries	36.63127	18.07018	2.03	0.043	1.214354	72.04818	
soc_supp	-46.14087	31.0868	-1.48	0.138	-107.0699	14.78813	

stigma							
hetrosxi sm	16.80437	2.180104	7.71	0.000	12.53144	21.07729	
dss1	-1.3511	.4347579	-3.11	0.002	-2.20321	-.49899	
dss2	-.3479159	.5475004	-0.64	0.525	-1.420997	.7251652	
med_worries	11.88404	2.127658	5.59	0.000	7.713905	16.05417	
soc_supp	-18.68274	3.449189	-5.42	0.000	-25.44303	-11.92246	

hetrosxi sm							
dss1	-1.055221	.3232914	-3.26	0.001	-1.688861	-.4215818	
dss2	-.1427617	.3996111	-0.36	0.721	-.925985	.6404616	
med_worries	7.044704	1.462741	4.82	0.000	4.177784	9.911624	
soc_supp	-12.21991	2.586335	-4.72	0.000	-17.28904	-7.150792	

dss1							
dss2	1.035962	.0905508	11.44	0.000	.8584857	1.213438	
med_worries	-.0037907	.304977	-0.01	0.990	-.6015347	.5939533	
soc_supp	1.24858	.5255497	2.38	0.018	.2185217	2.278639	

dss2							
med_worries	.3093809	.3785632	0.82	0.414	-.4325894	1.051351	
soc_supp	.0569376	.5979043	0.10	0.924	-1.114933	1.228808	

med_worries							
soc_supp	-11.69708	2.388038	-4.90	0.000	-16.37755	-7.01661	

```
. test _l race_2 _l race_3 _l race_4
```

```
( 1) [gay_harr]_l race_2 = 0
```

```

AFC_Demo_Part1_FIML_v3.log
( 2) [gay_harr]_l race_2 = 0
( 3) [gay_harr]_l race_4 = 0
      chi2( 3) = 7.82
      Prob > chi2 = 0.0500
. test _l sex_orn_2 _l sex_orn_3 _l sex_orn_4
( 1) [gay_harr]_l sex_orn_2 = 0
( 2) [gay_harr]_l sex_orn_3 = 0
( 3) [gay_harr]_l sex_orn_4 = 0
      chi2( 3) = 9.92
      Prob > chi2 = 0.0192
.
. // Note new N reported on output - uses full N
. // Compare results with listwise output. What is different?
. // 1. Marginally significant overall race effect (p = .05)
. // 2. Black (p = .007) and Hispanic (p = .031) ppts lower than whites
. // (only Black ppts were significantly different in the listwise analysis)
. // 3. Significant overall sexual orientation effect (p = .02)
. // 4. Straight (p = .005) and Bi (p .059) report less harassment
. // (marginal for Bi)
.
. * What about unadjusted analyses via FIML? A little more involved *
. // Essentially, this analysis generates covariances between the variables
. // at the full N. You can get results in the correlation metric by using
. // the -standardized- option if you want
.
. xi: sem (<- gay_harr i.race i.sex_orn age ///
> visi t6m hi v_meds hi v_mnth s ///
> stigma hetrosxi sm dss1 dss2 ///
> med_worries soc_supp), ///
> method(mlmv) vce(robust)
i.race _l race_1-4 (naturally coded; _l race_1 omitted)
i.sex_orn _l sex_orn_1-4 (naturally coded; _l sex_orn_1 omitted)

Exogenous variables
Observed: gay_harr _l race_2 _l race_3 _l race_4 _l sex_orn_2 _l sex_orn_3 _l sex_orn_4
age visi t6m hi v_meds hi v_mnth s stigma
hetrosxi sm dss1 dss2 med_worries soc_supp

Fitting saturated model:
Iteration 0: log pseudolikelihood = -16461.731
Iteration 1: log pseudolikelihood = -16332.699
Iteration 2: log pseudolikelihood = -16315.222
Iteration 3: log pseudolikelihood = -16314.797
Iteration 4: log pseudolikelihood = -16314.795
Iteration 5: log pseudolikelihood = -16314.795

Fitting baseline model:
Iteration 0: log pseudolikelihood = -17102.487
Iteration 1: log pseudolikelihood = -17101.176
Iteration 2: log pseudolikelihood = -17101.166
Iteration 3: log pseudolikelihood = -17101.166

Fitting target model:

```

AFC_Demo_Part1_FIML_v3.1 og

Iteration 0: log pseudolikelihood = -16314.795
 Iteration 1: log pseudolikelihood = -16314.795

Structural equation model
 Estimation method = mlmv
 Log pseudolikelihood = -16314.795
 Number of obs = 570

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf. Interval]
Mean					
gay_harr	4.710617	.0936256	50.31	0.000	4.527114 4.894119
_l_race_2	.6079645	.0204872	29.68	0.000	.5678104 .6481187
_l_race_3	.1986888	.0167439	11.87	0.000	.1658714 .2315063
_l_race_4	.0404851	.008276	4.89	0.000	.0242644 .0567057
_l_sex_orn_2	.0493162	.0094006	5.25	0.000	.0308914 .067741
_l_sex_orn_3	.1762726	.0163922	10.75	0.000	.1441445 .2084007
_l_sex_orn_4	.0391904	.0083838	4.67	0.000	.0227585 .0556223
age	37.23509	.4252988	87.55	0.000	36.40152 38.06866
visi_t6m	.6941114	.0217446	31.92	0.000	.6514928 .73673
hi_v_meds	.3905983	.0205655	18.99	0.000	.3502907 .4309058
hi_v_mnth	70.31002	3.541851	19.85	0.000	63.36812 77.25192
sti_gma	21.8728	.3447323	63.45	0.000	21.19714 22.54846
hetrosxi_sm	9.967523	.254916	39.10	0.000	9.467897 10.46715
dss1	2.465584	.054171	45.51	0.000	2.359411 2.571757
dss2	2.497966	.0670324	37.27	0.000	2.366585 2.629347
med_worries	12.15581	.2350241	51.72	0.000	11.69517 12.61645
soc_supp	35.08899	.3794515	92.47	0.000	34.34528 35.8327
Variance					
gay_harr	4.815383	.1724222			4.489027 5.165465
_l_race_2	.2382559	.0044258			.2297376 .2470901
_l_race_3	.1591347	.0100879			.1405418 .1801873
_l_race_4	.0387881	.0075957			.0264248 .0569357
_l_sex_orn_2	.0452648	.0082444			.0316755 .064684
_l_sex_orn_3	.1434366	.0105849			.1241211 .165758
_l_sex_orn_4	.0368854	.0075901			.0246433 .055209
age	102.9202	4.449663			94.55828 112.0215
visi_t6m	.214421	.0081555			.1990178 .2310163
hi_v_meds	.2387042	.0044363			.2301656 .2475596
hi_v_mnth	7013.79	472.4877			6146.262 8003.766
sti_gma	65.44255	3.948738			58.14329 73.65816
hetrosxi_sm	32.82972	1.900871			29.30771 36.77499
dss1	1.641341	.0835296			1.485526 1.8135
dss2	2.493832	.0934899			2.317166 2.683969
med_worries	30.73836	1.907751			27.21771 34.71442
soc_supp	80.49618	5.445346			70.50076 91.90872
Covariance					
gay_harr					
_l_race_2	-.0908464	.0456144	-1.99	0.046	-.180249 -.0014439
_l_race_3	-.0412719	.0384071	-1.07	0.283	-.1165485 .0340048
_l_race_4	.0225104	.0219018	1.03	0.304	-.0204164 .0654371
_l_sex_orn_2	-.0697803	.0245928	-2.84	0.005	-.1179812 -.0215794
_l_sex_orn_3	-.0357683	.035061	-1.02	0.308	-.1044866 .0329499
_l_sex_orn_4	.0036444	.02127	0.17	0.864	-.038044 .0453327
age	-2.493084	.9653806	-2.58	0.010	-4.385195 -.6009726
visi_t6m	.0330602	.0483369	0.68	0.494	-.0616784 .1277987
hi_v_meds	-.0471075	.0465296	-1.01	0.311	-.1383038 .0440888
hi_v_mnth	-6.198798	7.836966	-0.79	0.429	-21.55897 9.161373
sti_gma	5.220038	.7898181	6.61	0.000	3.672023 6.768053

AFC_Demo_Part1_FIML_v3.1 og

hetrosxi_sm	-.0243871	.6099882	-0.04	0.968	-1.219942 1.171168
dss1	.384489	.1231319	3.12	0.002	.143155 .6258231
dss2	.0936289	.1481776	0.63	0.527	-.1967938 .3840516
med_worries	1.281989	.5331712	2.40	0.016	.236993 2.326986
soc_supp	-.8455354	.8629645	-0.98	0.327	-2.536915 .845844
_l_race_2					
_l_race_3	-.1207389	.0082923	-14.56	0.000	-.1369914 -.1044864
_l_race_4	-.0245786	.0048791	-5.04	0.000	-.0341414 -.0150158
_l_sex_orn_2	.0157051	.0038035	4.13	0.000	.0082504 .0231598
_l_sex_orn_3	.0373326	.0071372	5.23	0.000	.023344 .0513211
_l_sex_orn_4	.0081662	.0036561	2.23	0.026	.0010004 .015332
age	.4702726	.1975538	2.38	0.017	.0830742 .8574709
visi_t6m	-.0255363	.0104446	-2.44	0.014	-.0460074 -.0050653
hi_v_meds	.0161063	.0099814	1.61	0.107	-.0034568 .0356695
hi_v_mnth	10.43553	1.559561	6.69	0.000	7.378847 13.49231
sti_gma	.3935442	.1650502	2.38	0.017	.0700517 .7170367
hetrosxi_sm	.460304	.1201418	3.83	0.000	.2248304 .6957777
dss1	-.0097215	.0262216	-0.37	0.711	-.0611148 .0416718
dss2	.1229682	.031707	3.88	0.000	.0608236 .1851128
med_worries	.2477003	.1134992	2.18	0.029	.0252458 .4701547
soc_supp	-.7454214	.1758521	-4.24	0.000	-1.090085 -.4007576
_l_race_3					
_l_race_4	-.0080253	.0017096	-4.69	0.000	-.011376 -.0046746
_l_sex_orn_2	-.0079244	.0023606	-3.36	0.001	-.0125511 -.0032976
_l_sex_orn_3	-.0172859	.0053803	-3.21	0.001	-.0278311 -.0067408
_l_sex_orn_4	-.0005889	.0031958	-0.18	0.854	-.0068526 .0056748
age	-.5064139	.1493868	-3.39	0.001	-.7992065 -.2136212
visi_t6m	.0273202	.0077127	3.54	0.000	.0122035 .0424368
hi_v_meds	.0024011	.0082436	0.29	0.771	-.013756 .0185583
hi_v_mnth	-5.329716	1.228902	-4.34	0.000	-7.738321 -2.921111
sti_gma	-.4933552	.1288401	-3.83	0.000	-.7458772 -.2408332
hetrosxi_sm	-.2144779	.0998265	-2.15	0.032	-.4101342 -.0188215
dss1	-.0402276	.0205392	-1.96	0.050	-.0804837 .0000285
dss2	-.0657845	.0259249	-2.54	0.011	-.1165963 -.0149726
med_worries	-.237834	.0974241	-2.44	0.015	-.4287818 -.0468862
soc_supp	.265461	.138959	1.91	0.056	-.0068937 .5378185
_l_race_4					
_l_sex_orn_2	-.0019966	.0005451	-3.66	0.000	-.003065 -.0009281
_l_sex_orn_3	-.0036276	.0024739	-1.47	0.143	-.0084765 .0012212
_l_sex_orn_4	-.0015866	.0004599	-3.45	0.001	-.002488 -.0006853
age	-.0883206	.079089	-1.12	0.264	-.2433322 .0666909
visi_t6m	-.0012472	.004121	-0.30	0.762	-.0093243 .0068299
hi_v_meds	-.0016441	.0039641	-0.41	0.678	-.0094137 .0061254
hi_v_mnth	-1.641427	.501584	-3.27	0.001	-2.624514 -.6583409
sti_gma	.1647988	.0740642	2.23	0.026	.0196357 .3099619
hetrosxi_sm	.0317201	.0452744	0.70	0.484	-.0570161 .1204562
dss1	-.0170948	.0101829	-1.68	0.093	-.037053 .0028634
dss2	-.0186119	.0106063	-1.75	0.079	-.0393999 .0021762
med_worries	-.0042044	.0396835	-0.11	0.916	-.0819826 .0735739
soc_supp	-.0136861	.069865	-0.20	0.845	-.150619 .1232468
_l_sex_orn_2					
_l_sex_orn_3	-.0081146	.0016761	-4.84	0.000	-.0113996 -.0048296
_l_sex_orn_4	-.0017713	.0005065	-3.50	0.000	-.0027641 -.0007785
age	-.3234842	.1112383	-2.91	0.004	-.1054611 .5415072
visi_t6m	-.0003923	.0045393	-0.09	0.931	-.0092891 .0085045
hi_v_meds	.0069543	.0047233	1.47	0.141	-.0023033 .0162119
hi_v_mnth	2.885025	1.089039	2.65	0.008	.7505476 5.019501
sti_gma	.0906149	.0696412	1.30	0.193	-.0458794 .2271091
hetrosxi_sm	.3197042	.0779277	4.10	0.000	.1669687 .4724397

```

AFC_Demo_Part1_FIML_v3.log
dss1      .0007092  .0122247  0.06  0.954  -.0232509  .0246692
dss2      .0205372  .0140834  1.46  0.145  -.0070657  .0481401
med_worries .0450072  .0473165  0.95  0.342  -.0477314  .1377458
soc_supp  -.0877238  .0789501  -1.11  0.267  -.2424631  .0670156
-----
_lsex_orn_3
_lsex_orn_4 -.0066285  .0015026  -4.41  0.000  -.0095736  -.0036834
age         .0271501  .1845568  0.15  0.883  -.3345746  .3888748
visitm     -.0185744  .0088859  -2.09  0.037  -.0359904  -.0011585
hiv_meds   .0074488  .0080809  0.92  0.357  -.0083895  .0232871
hiv_mnth   2.705307  1.429703  1.89  0.058  -.0968602  5.507474
stigma     .386856   .1488595  2.60  0.009  -.0950967  .6786152
hetrosxism .4274137  .1028468  4.16  0.000  -.2258377  .6289897
dss1       .0219973  .022264  0.99  0.323  -.0216394  .065634
dss2       .0629995  .0276832  2.28  0.023  -.0087414  .1172575
med_worries .1087748  .0929475  1.17  0.242  -.0733999  .2909486
soc_supp   -.395972  .1659076  -2.39  0.017  -.721145  -.0707989
-----
_lsex_orn_4
age         .0758388  .0904879  0.84  0.402  -.1015141  .2531918
visitm     .0030404  .0040672  0.75  0.455  -.0049312  .0110119
hiv_meds   -.0003943  .0041874  -0.09  0.925  -.0086014  .0078128
hiv_mnth   1.151961  .9017349  1.28  0.201  -.6154067  2.919329
stigma     .0293001  .0699158  0.42  0.675  -.1077323  .1663325
hetrosxism .2045521  .0674907  3.03  0.002  -.0722727  .3368315
dss1       -.0030256  .0123077  -0.25  0.806  -.0271483  .0210971
dss2       -.0041004  .0141247  -0.29  0.772  -.0317842  .0235835
med_worries .0290141  .0518531  0.56  0.576  -.0726162  .1306444
soc_supp   -.2565067  .1095347  -2.34  0.019  -.4711907  -.0418228
-----
age
visitm     -.4998907  .2157939  -2.32  0.021  -.922839  -.0769423
hiv_meds   1.522552  .199287  7.64  0.000  1.131956  1.913147
hiv_mnth   431.5365  35.74438  12.07  0.000  361.4788  501.5943
stigma     -7.00797  3.375263  -2.08  0.038  -13.62336  -.3925755
hetrosxism -.1926595  2.546429  -0.08  0.940  -5.183569  4.79825
dss1       1.998741  .5491163  3.64  0.000  .9224932  3.07499
dss2       2.725778  .6816887  4.00  0.000  1.389693  4.061864
med_worries -1.67984  2.398058  -0.70  0.484  -6.379948  3.020267
soc_supp   -2.595701  3.833702  -0.68  0.498  -10.10962  4.918218
-----
visitm
hiv_meds   -.0005882  .010376  -0.06  0.955  -.0209248  .0197484
hiv_mnth   -5.860059  1.704725  -3.44  0.001  -9.201259  -2.518858
stigma     -.403624  .1855724  -2.18  0.030  -.7673394  -.0399087
hetrosxism -.1104962  .1412539  -0.78  0.434  -.3873487  .1663563
dss1       -.0133371  .0264341  -0.50  0.614  -.0651471  .0384728
dss2       -.053083  .033879  -1.57  0.117  -.1194846  .0133185
med_worries -.197932  .1290495  -1.53  0.125  -.4508644  .0550004
soc_supp   -1.008402  .1961292  0.51  0.607  -.2835659  .4852463
-----
hiv_meds
hiv_mnth   13.96416  1.705314  8.19  0.000  10.6218  17.30651
stigma     -.13172  .1686148  -0.78  0.435  -.462199  .198759
hetrosxism .1022441  .1266674  0.81  0.420  -.1460195  .3505077
dss1       .0829987  .0270367  3.07  0.002  .0300077  .1359898
dss2       .2266112  .0326498  6.94  0.000  .1626188  .2906037
med_worries -.1063303  .1149478  -0.93  0.355  -.3316239  .1189632
soc_supp   -.0754446  .1846446  -0.41  0.683  -.4373414  .2864523
-----
hiv_mnth
stigma     -20.0828  28.3605  -0.71  0.479  -75.66835  35.50276
hetrosxism -1.588038  21.56139  -0.07  0.941  -43.84758  40.6715

```

```

AFC_Demo_Part1_FIML_v3.log
dss1      33.49297  4.76107  7.03  0.000  24.16144  42.82449
dss2      49.51365  5.966671  8.30  0.000  37.81919  61.20811
med_worries 36.63127  18.07018  2.03  0.043  1.214354  72.04818
soc_supp  -46.14087  31.0868  -1.48  0.138  -107.0699  14.78813
-----
stigma
hetrosxism 16.80437  2.180104  7.71  0.000  12.53144  21.07729
dss1      -1.3511  .4347579  -3.11  0.002  -2.20321  -.49899
dss2      -3.479159  .5475004  -0.64  0.525  -1.420997  .7251652
med_worries 11.88404  2.127658  5.59  0.000  7.713905  16.05417
soc_supp  -18.68274  3.449189  -5.42  0.000  -25.44303  -11.92246
-----
hetrosxism
dss1      -1.055221  .3232914  -3.26  0.001  -1.688861  -.4215818
dss2      -1.1427617  .3996111  -0.36  0.721  -.925985  .6404616
med_worries 7.044704  1.462741  4.82  0.000  4.177784  9.911624
soc_supp  -12.21991  2.586335  -4.72  0.000  -17.28904  -7.150792
-----
dss1
dss2      1.035962  .0905508  11.44  0.000  .8584857  1.213438
med_worries -.0037907  .304977  -0.01  0.990  -.6015347  .5939533
soc_supp   1.24858  .5255497  2.38  0.018  .2185217  2.278639
-----
dss2
med_worries .3093809  .3785632  0.82  0.414  -.4325894  1.051351
soc_supp   .0569376  .5979043  0.10  0.924  -1.114933  1.228808
-----
med_worries
soc_supp  -11.69708  2.388038  -4.90  0.000  -16.37755  -7.01661

```

```

. // The covariances between gay harrasment and age and between
. // gay harrasment and six month doctor visit are shown in the
. // default -sem- output. What do we do to obtain multi-DF tests
. // of categorical explanatory variables with more than 2 levels?
.
. // First, replay results, but show coefficient labels so these can be
. // copy-pasted into this do file in the -test- statements below
.
. sem, coeflegend

```

```

Structural equation model          Number of obs   =      570
Estimation method = mlmv
Log pseudolikelihood = -16314.795

```

```

-----
              Coef.  Legend
-----
Mean
  gay_harr    4.710617  _b[mean(gay_harr):_cons]
  _l race_2   6.079645  _b[mean(_l race_2):_cons]
  _l race_3   1.986888  _b[mean(_l race_3):_cons]
  _l race_4   0.040851  _b[mean(_l race_4):_cons]
  _lsex_orn_2 .0493162  _b[mean(_lsex_orn_2):_cons]
  _lsex_orn_3 .1762726  _b[mean(_lsex_orn_3):_cons]
  _lsex_orn_4 .0391904  _b[mean(_lsex_orn_4):_cons]
  age        37.23509  _b[mean(age):_cons]
  visitm     .6941114  _b[mean(visitm):_cons]
  hiv_meds   .3905983  _b[mean(hiv_meds):_cons]
  hiv_mnth   70.31002  _b[mean(hiv_mnth):_cons]
  stigma     21.8728  _b[mean(stigma):_cons]
  hetrosxism 9.967523  _b[mean(hetrosxism):_cons]

```

```

AFC_Demo_Part1_FIML_v3.1 og
dss1 2.465584 _b[mean(dss1):_cons]
dss2 2.497966 _b[mean(dss2):_cons]
med_worries 12.15581 _b[mean(med_worries):_cons]
soc_supp 35.08899 _b[mean(soc_supp):_cons]
-----
Variance
gay_harr 4.815383 _b[var(gay_harr):_cons]
_race_2 .2382559 _b[var(_race_2):_cons]
_race_3 .1591347 _b[var(_race_3):_cons]
_race_4 .0387881 _b[var(_race_4):_cons]
_lsex_orn_2 .0452648 _b[var(_lsex_orn_2):_cons]
_lsex_orn_3 .1434366 _b[var(_lsex_orn_3):_cons]
_lsex_orn_4 .0368854 _b[var(_lsex_orn_4):_cons]
age 102.9202 _b[var(age):_cons]
visi_t6m .214421 _b[var(visi_t6m):_cons]
hi_v_meds .2387042 _b[var(hi_v_meds):_cons]
hi_v_mnth 7013.79 _b[var(hi_v_mnth):_cons]
sti_gma 65.44255 _b[var(sti_gma):_cons]
hetrosxi_sm 32.82972 _b[var(hetrosxi_sm):_cons]
dss1 1.641341 _b[var(dss1):_cons]
dss2 2.493832 _b[var(dss2):_cons]
med_worries 30.73836 _b[var(med_worries):_cons]
soc_supp 80.49618 _b[var(soc_supp):_cons]
-----
Covariance
gay_harr
_race_2 -.0908464 _b[cov(gay_harr,_race_2):_cons]
_race_3 -.0412719 _b[cov(gay_harr,_race_3):_cons]
_race_4 .0225104 _b[cov(gay_harr,_race_4):_cons]
_lsex_orn_2 -.0697803 _b[cov(gay_harr,_lsex_orn_2):_cons]
_lsex_orn_3 -.0357683 _b[cov(gay_harr,_lsex_orn_3):_cons]
_lsex_orn_4 -.0036444 _b[cov(gay_harr,_lsex_orn_4):_cons]
age -2.493084 _b[cov(gay_harr,age):_cons]
visi_t6m .0330602 _b[cov(gay_harr,visi_t6m):_cons]
hi_v_meds -.0471075 _b[cov(gay_harr,hi_v_meds):_cons]
hi_v_mnth -6.198798 _b[cov(gay_harr,hi_v_mnth):_cons]
sti_gma 5.220038 _b[cov(gay_harr,sti_gma):_cons]
hetrosxi_sm -.0243871 _b[cov(gay_harr,hetrosxi_sm):_cons]
dss1 .384489 _b[cov(gay_harr,dss1):_cons]
dss2 .0936289 _b[cov(gay_harr,dss2):_cons]
med_worries 1.281989 _b[cov(gay_harr,med_worries):_cons]
soc_supp -.8455354 _b[cov(gay_harr,soc_supp):_cons]
-----
_race_2
_race_3 -.1207389 _b[cov(_race_2,_race_3):_cons]
_race_4 -.0245786 _b[cov(_race_2,_race_4):_cons]
_lsex_orn_2 .0157051 _b[cov(_race_2,_lsex_orn_2):_cons]
_lsex_orn_3 .0373326 _b[cov(_race_2,_lsex_orn_3):_cons]
_lsex_orn_4 .0081662 _b[cov(_race_2,_lsex_orn_4):_cons]
age .4702726 _b[cov(_race_2,age):_cons]
visi_t6m -.0255363 _b[cov(_race_2,visi_t6m):_cons]
hi_v_meds .0161063 _b[cov(_race_2,hi_v_meds):_cons]
hi_v_mnth 10.43553 _b[cov(_race_2,hi_v_mnth):_cons]
sti_gma .3935442 _b[cov(_race_2,sti_gma):_cons]
hetrosxi_sm .460304 _b[cov(_race_2,hetrosxi_sm):_cons]
dss1 -.0097215 _b[cov(_race_2,dss1):_cons]
dss2 .1229682 _b[cov(_race_2,dss2):_cons]
med_worries .2477003 _b[cov(_race_2,med_worries):_cons]
soc_supp -.7454214 _b[cov(_race_2,soc_supp):_cons]
-----
_race_3
_race_4 -.0080253 _b[cov(_race_3,_race_4):_cons]
_lsex_orn_2 -.0079244 _b[cov(_race_3,_lsex_orn_2):_cons]

```

```

AFC_Demo_Part1_FIML_v3.1 og
_lsex_orn_3 -.0172859 _b[cov(_lsex_orn_3,_lsex_orn_3):_cons]
_lsex_orn_4 -.0005889 _b[cov(_lsex_orn_3,_lsex_orn_4):_cons]
age -.5064139 _b[cov(_lsex_orn_3,age):_cons]
visi_t6m .0273202 _b[cov(_lsex_orn_3,visi_t6m):_cons]
hi_v_meds .0024011 _b[cov(_lsex_orn_3,hi_v_meds):_cons]
hi_v_mnth -5.329716 _b[cov(_lsex_orn_3,hi_v_mnth):_cons]
sti_gma -.4933552 _b[cov(_lsex_orn_3,sti_gma):_cons]
hetrosxi_sm -.2144779 _b[cov(_lsex_orn_3,hetrosxi_sm):_cons]
dss1 -.0402276 _b[cov(_lsex_orn_3,dss1):_cons]
dss2 -.0657845 _b[cov(_lsex_orn_3,dss2):_cons]
med_worries -.237834 _b[cov(_lsex_orn_3,med_worries):_cons]
soc_supp .265461 _b[cov(_lsex_orn_3,soc_supp):_cons]
-----
_race_4
_lsex_orn_2 -.0019966 _b[cov(_race_4,_lsex_orn_2):_cons]
_lsex_orn_3 -.0036276 _b[cov(_race_4,_lsex_orn_3):_cons]
_lsex_orn_4 -.0015866 _b[cov(_race_4,_lsex_orn_4):_cons]
age -.0883206 _b[cov(_race_4,age):_cons]
visi_t6m -.0012472 _b[cov(_race_4,visi_t6m):_cons]
hi_v_meds -.0016441 _b[cov(_race_4,hi_v_meds):_cons]
hi_v_mnth -1.641427 _b[cov(_race_4,hi_v_mnth):_cons]
sti_gma .1647988 _b[cov(_race_4,sti_gma):_cons]
hetrosxi_sm .0317201 _b[cov(_race_4,hetrosxi_sm):_cons]
dss1 -.0170948 _b[cov(_race_4,dss1):_cons]
dss2 -.0186119 _b[cov(_race_4,dss2):_cons]
med_worries -.0042044 _b[cov(_race_4,med_worries):_cons]
soc_supp -.0136861 _b[cov(_race_4,soc_supp):_cons]
-----
_lsex_orn_2
_lsex_orn_3 -.0081146 _b[cov(_lsex_orn_2,_lsex_orn_3):_cons]
_lsex_orn_4 -.0017713 _b[cov(_lsex_orn_2,_lsex_orn_4):_cons]
age .3234842 _b[cov(_lsex_orn_2,age):_cons]
visi_t6m -.0003923 _b[cov(_lsex_orn_2,visi_t6m):_cons]
hi_v_meds .0069543 _b[cov(_lsex_orn_2,hi_v_meds):_cons]
hi_v_mnth 2.885025 _b[cov(_lsex_orn_2,hi_v_mnth):_cons]
sti_gma .0906149 _b[cov(_lsex_orn_2,sti_gma):_cons]
hetrosxi_sm .3197042 _b[cov(_lsex_orn_2,hetrosxi_sm):_cons]
dss1 .0007092 _b[cov(_lsex_orn_2,dss1):_cons]
dss2 .0205372 _b[cov(_lsex_orn_2,dss2):_cons]
med_worries .0450072 _b[cov(_lsex_orn_2,med_worries):_cons]
soc_supp -.0877238 _b[cov(_lsex_orn_2,soc_supp):_cons]
-----
_lsex_orn_3
_lsex_orn_4 -.0066285 _b[cov(_lsex_orn_3,_lsex_orn_4):_cons]
age .0271501 _b[cov(_lsex_orn_3,age):_cons]
visi_t6m -.0185744 _b[cov(_lsex_orn_3,visi_t6m):_cons]
hi_v_meds .0074488 _b[cov(_lsex_orn_3,hi_v_meds):_cons]
hi_v_mnth 2.705307 _b[cov(_lsex_orn_3,hi_v_mnth):_cons]
sti_gma .386856 _b[cov(_lsex_orn_3,sti_gma):_cons]
hetrosxi_sm .4274137 _b[cov(_lsex_orn_3,hetrosxi_sm):_cons]
dss1 .0219973 _b[cov(_lsex_orn_3,dss1):_cons]
dss2 .0629995 _b[cov(_lsex_orn_3,dss2):_cons]
med_worries .1087748 _b[cov(_lsex_orn_3,med_worries):_cons]
soc_supp -.395972 _b[cov(_lsex_orn_3,soc_supp):_cons]
-----
_lsex_orn_4
age .0758388 _b[cov(_lsex_orn_4,age):_cons]
visi_t6m .0030404 _b[cov(_lsex_orn_4,visi_t6m):_cons]
hi_v_meds -.0003943 _b[cov(_lsex_orn_4,hi_v_meds):_cons]
hi_v_mnth 1.151961 _b[cov(_lsex_orn_4,hi_v_mnth):_cons]
sti_gma .0293001 _b[cov(_lsex_orn_4,sti_gma):_cons]
hetrosxi_sm .2045521 _b[cov(_lsex_orn_4,hetrosxi_sm):_cons]
dss1 -.0030256 _b[cov(_lsex_orn_4,dss1):_cons]

```

```

AFC_Demo_Part1_FIML_v3.log
-----
dss2          -.0041004  _b[cov(_l sex_orn_4, dss2):_cons]
med_worries  .0290141  _b[cov(_l sex_orn_4, med_worries):_cons]
soc_supp     -.2565067  _b[cov(_l sex_orn_4, soc_supp):_cons]
-----
age
  visi t6m   -.4998907  _b[cov(age, visi t6m):_cons]
  hi v_meds  1.522552  _b[cov(age, hi v_meds):_cons]
  hi v_mnths 431.5365  _b[cov(age, hi v_mnths):_cons]
  stigma     -.700797  _b[cov(age, stigma):_cons]
  hetrosxi sm -.1926595  _b[cov(age, hetrosxi sm):_cons]
  dss1       1.998741  _b[cov(age, dss1):_cons]
  dss2       2.725778  _b[cov(age, dss2):_cons]
  med_worries -.1.67984  _b[cov(age, med_worries):_cons]
  soc_supp   -.2.595701  _b[cov(age, soc_supp):_cons]
-----
visi t6m
  hi v_meds  -.0005882  _b[cov(visi t6m, hi v_meds):_cons]
  hi v_mnths -5.860059  _b[cov(visi t6m, hi v_mnths):_cons]
  stigma     -.403624  _b[cov(visi t6m, stigma):_cons]
  hetrosxi sm -.1104962  _b[cov(visi t6m, hetrosxi sm):_cons]
  dss1       -.0133371  _b[cov(visi t6m, dss1):_cons]
  dss2       -.053083  _b[cov(visi t6m, dss2):_cons]
  med_worries -.1.197932  _b[cov(visi t6m, med_worries):_cons]
  soc_supp   .1008402  _b[cov(visi t6m, soc_supp):_cons]
-----
hi v_meds
  hi v_mnths 13.96416  _b[cov(hi v_meds, hi v_mnths):_cons]
  stigma     -.13172  _b[cov(hi v_meds, stigma):_cons]
  hetrosxi sm .1022441  _b[cov(hi v_meds, hetrosxi sm):_cons]
  dss1       .0829987  _b[cov(hi v_meds, dss1):_cons]
  dss2       .2266112  _b[cov(hi v_meds, dss2):_cons]
  med_worries -.1.1063303  _b[cov(hi v_meds, med_worries):_cons]
  soc_supp   -.0754446  _b[cov(hi v_meds, soc_supp):_cons]
-----
hi v_mnths
  stigma     -20.0828  _b[cov(hi v_mnths, stigma):_cons]
  hetrosxi sm -1.588038  _b[cov(hi v_mnths, hetrosxi sm):_cons]
  dss1       33.49297  _b[cov(hi v_mnths, dss1):_cons]
  dss2       49.51365  _b[cov(hi v_mnths, dss2):_cons]
  med_worries 36.63127  _b[cov(hi v_mnths, med_worries):_cons]
  soc_supp   -46.14087  _b[cov(hi v_mnths, soc_supp):_cons]
-----
stigma
  hetrosxi sm 16.80437  _b[cov(stigma, hetrosxi sm):_cons]
  dss1       -1.3511  _b[cov(stigma, dss1):_cons]
  dss2       -.3479159  _b[cov(stigma, dss2):_cons]
  med_worries 11.88404  _b[cov(stigma, med_worries):_cons]
  soc_supp   -18.68274  _b[cov(stigma, soc_supp):_cons]
-----
hetrosxi sm
  dss1       -1.055221  _b[cov(hetrosxi sm, dss1):_cons]
  dss2       -.1427617  _b[cov(hetrosxi sm, dss2):_cons]
  med_worries 7.044704  _b[cov(hetrosxi sm, med_worries):_cons]
  soc_supp   -12.21991  _b[cov(hetrosxi sm, soc_supp):_cons]
-----
dss1
  dss2       1.035962  _b[cov(dss1, dss2):_cons]
  med_worries -.0037907  _b[cov(dss1, med_worries):_cons]
  soc_supp   1.24858  _b[cov(dss1, soc_supp):_cons]
-----
dss2
  med_worries .3093809  _b[cov(dss2, med_worries):_cons]
  soc_supp   .0569376  _b[cov(dss2, soc_supp):_cons]

```

```

AFC_Demo_Part1_FIML_v3.log
-----
med_worries  soc_supp | -11.69708  _b[cov(med_worries, soc_supp):_cons]
-----
. // Now do the test statements for race/ethnicity and sexual identity
. // Note how much more finicky Stata is about the syntax for -test-
. // in this context
.
. test (_b[cov(gay_harr, _l race_2):_cons] = 0) ///
>      (_b[cov(gay_harr, _l race_3):_cons] = 0) ///
>      (_b[cov(gay_harr, _l race_4):_cons] = 0)

( 1) [cov(gay_harr, _l race_2)]_cons = 0
( 2) [cov(gay_harr, _l race_3)]_cons = 0
( 3) [cov(gay_harr, _l race_4)]_cons = 0

      chi2( 3) = 14.87
      Prob > chi2 = 0.0019

. test (_b[cov(gay_harr, _l sex_orn_2):_cons] = 0) ///
>      (_b[cov(gay_harr, _l sex_orn_3):_cons] = 0) ///
>      (_b[cov(gay_harr, _l sex_orn_4):_cons] = 0)

( 1) [cov(gay_harr, _l sex_orn_2)]_cons = 0
( 2) [cov(gay_harr, _l sex_orn_3)]_cons = 0
( 3) [cov(gay_harr, _l sex_orn_4)]_cons = 0

      chi2( 3) = 10.08
      Prob > chi2 = 0.0179

. // Both overall tests are significant, as was the case with the corresponding
. listwise analyses
.
. // From the -sem- output we see that Blacks reported less harassment relative to
. whites, but
. // Hispanics didn't, which is different from the listwise results above.
.
. // Straight-identified reported less harassment than gay-identified.
.
. // Results for age and six month doctor visits were also unchanged
. // between the bivariate FIML analyses and the bivariate listwise analyses
. // Age is significantly negatively related to harassment; doctor visits
. // were unrelated to harassment
.
. // Replay results using standardized option to display covariances
. // in the correlation metric. This is useful for reporting purposes
.
. sem, standardized

Structural equation model              Number of obs      =      570
Estimation method = mlmv
Log pseudolikelihood = -16314.795
-----
Standardized |      Coef.      Robust      z      P>|z|      [95% Conf. Interval]
Mean         |
gay_harr     |      2.146655   .0509708   42.12   0.000   2.046754   2.246556
-----

```

AFC_Demo_Part1_FIML_v3. log

_l race_2	1.245536	.0535386	23.26	0.000	1.140603	1.35047
_l race_3	.4980708	.0261877	19.02	0.000	.4467439	.5493977
_l race_4	.2055633	.0218959	9.39	0.000	.1626482	.2484784
_l sex_orn_2	.2317978	.0231649	10.01	0.000	.1863955	.2772001
_l sex_orn_3	.4654304	.0261664	17.79	0.000	.4141452	.5167155
_l sex_orn_4	.2040575	.022714	8.98	0.000	.1595389	.2485762
age	3.670305	.0830224	44.21	0.000	3.507584	3.833026
visi t6m	1.498979	.0749285	20.01	0.000	1.352122	1.645836
hi v_meds	.7994665	.0347244	23.02	0.000	.731408	.867525
hi v_mnth	.839539	.0280378	29.94	0.000	.7845859	.8944921
sti gma	2.703798	.0665275	40.64	0.000	2.573407	2.83419
hetrosxi sm	1.739617	.0418496	41.57	0.000	1.657593	1.821641
dss1	1.924511	.0392698	49.01	0.000	1.847543	2.001478
dss2	1.581805	.0294183	53.77	0.000	1.524146	1.639463
med_worries	2.19252	.073141	29.98	0.000	2.049167	2.335874
soc_supp	3.910959	.1546864	25.28	0.000	3.607779	4.214139

Variance

gay_harr	1	.	.	.	.	.
_l race_2	1	.	.	.	.	.
_l race_3	1	.	.	.	.	.
_l race_4	1	.	.	.	.	.
_l sex_orn_2	1	.	.	.	.	.
_l sex_orn_3	1	.	.	.	.	.
_l sex_orn_4	1	.	.	.	.	.
age	1	.	.	.	.	.
visi t6m	1	.	.	.	.	.
hi v_meds	1	.	.	.	.	.
hi v_mnth	1	.	.	.	.	.
sti gma	1	.	.	.	.	.
hetrosxi sm	1	.	.	.	.	.
dss1	1	.	.	.	.	.
dss2	1	.	.	.	.	.
med_worries	1	.	.	.	.	.
soc_supp	1	.	.	.	.	.

Covariance

gay_harr						
_l race_2	-.0848146	.0425238	-1.99	0.046	-.1681597	-.0014695
_l race_3	-.0471472	.0437956	-1.08	0.282	-.132985	.0386905
_l race_4	.0520857	.0498807	1.04	0.296	-.0456787	.14985
_l sex_orn_2	-.1494642	.0470621	-3.18	0.001	-.2417042	-.0572243
_l sex_orn_3	-.0430381	.0420677	-1.02	0.306	-.1254893	.039413
_l sex_orn_4	.0086473	.0504422	0.17	0.864	-.0902176	.1075122
age	-.1119879	.0431569	-2.59	0.009	-.1965739	-.027402
visi t6m	-.0325354	.0475383	0.68	0.494	-.060638	.1257088
hi v_meds	-.0439384	.0433791	-1.01	0.311	-.1289598	.041083
hi v_mnth	-.03373	.0425333	-0.79	0.428	-.1170936	.0496337
sti gma	.2940547	.0416615	7.06	0.000	.2123996	.3757098
hetrosxi sm	-.0019396	.0485122	-0.04	0.968	-.0970217	.0931425
dss1	.1367632	.0430814	3.17	0.002	.0523251	.2212012
dss2	.0270185	.0427456	0.63	0.527	-.0567613	.1107982
med_worries	.1053728	.0433649	2.43	0.015	.0203792	.1903665
soc_supp	-.0429466	.043469	-0.99	0.323	-.1281443	.0422511

_l race_2

_l race_2	-.6200732	.0263735	-23.51	0.000	-.6717642	-.5683821
_l race_3	-.2556734	.0266341	-9.60	0.000	-.3078753	-.2034715
_l race_4	.1512303	.0277	5.46	0.000	.0969392	.2055214
_l sex_orn_2	.2019462	.0361852	5.58	0.000	.1310246	.2728679
_l sex_orn_3	.0871107	.0357496	2.44	0.015	.0170428	.1571787
_l sex_orn_4	.0949681	.0397668	2.39	0.017	.0170266	.1729095
age	-.1129804	.0460027	-2.46	0.014	-.203144	-.0228169
visi t6m						

AFC_Demo_Part1_FIML_v3. log

hi v_meds	.0675374	.0418308	1.61	0.106	-.0144495	.1495243
hi v_mnth	.2552797	.0347318	7.35	0.000	.1872065	.3233529
sti gma	.0996647	.0411958	2.42	0.016	.0189225	.180407
hetrosxi sm	.1645847	.0429674	3.83	0.000	.0803701	.2487992
dss1	-.0155457	.0419329	-0.37	0.711	-.0977326	.0666412
dss2	.1595282	.0406818	3.92	0.000	.0797933	.239263
med_worries	.0915302	.0416142	2.20	0.028	.0099679	.1730924
soc_supp	-.1702129	.0391884	-4.34	0.000	-.2470207	-.093405

_l race_3

_l race_3	-.102148	.011633	-8.78	0.000	-.1249482	-.0793477
_l race_4	-.0933689	.0229858	-4.06	0.000	-.1384202	-.0483176
_l sex_orn_2	-.1144143	.0342289	-3.34	0.001	-.1815018	-.0473268
_l sex_orn_3	-.0076863	.0416891	-0.18	0.854	-.0893955	.0740229
_l sex_orn_4	-.1251333	.0360218	-3.47	0.001	-.1957348	-.0545319
age	.1478996	.0406094	3.64	0.000	.0683067	.2274925
visi t6m	.0123198	.0422891	0.29	0.771	-.0705653	.0952049
hi v_meds	-.1595311	.0345796	-4.61	0.000	-.2273058	-.0917564
hi v_mnth	-.1528788	.0381085	-4.01	0.000	-.2275701	-.0781875
sti gma	-.0938354	.0436347	-2.15	0.032	-.1793578	-.0083129
hetrosxi sm	-.0787122	.0398681	-1.97	0.048	-.1568523	-.0005722
dss1	-.1044257	.0406312	-2.57	0.010	-.1840613	-.0247901
dss2	-.1075354	.0436224	-2.47	0.014	-.1930337	-.022037
med_worries	.0741704	.038512	1.93	0.054	-.0013117	.1496525
soc_supp						

_l race_4

_l race_4	-.0476491	.0068014	-7.01	0.000	-.0609797	-.0343185
_l sex_orn_2	-.0486345	.0319654	-1.52	0.128	-.1112855	.0140166
_l sex_orn_3	-.0419467	.0063353	-6.62	0.000	-.0543637	-.0295297
_l sex_orn_4	-.0442041	.0387916	-1.14	0.254	-.1202343	.0318261
age	-.0136759	.0451152	-0.30	0.762	-.1021001	.0747482
visi t6m	-.0170866	.041096	-0.42	0.678	-.0976332	.06346
hi v_meds	-.0995167	.0247168	-4.03	0.000	-.1479609	-.0510726
hi v_mnth	.1034367	.0431557	2.40	0.017	.0188531	.1880203
sti gma	.0281094	.0398584	0.71	0.481	-.0500117	.1062305
hetrosxi sm	-.067751	.0386562	-1.75	0.080	-.1435158	.0080138
dss1	-.0598421	.0324481	-1.84	0.065	-.1234393	.003755
dss2	-.0038505	.0363351	-0.11	0.916	-.0750659	.067365
med_worries	-.0077454	.0395366	-0.20	0.845	-.0852356	.0697448
soc_supp						

_l sex_orn_2

_l sex_orn_2	-.100706	.0113556	-8.87	0.000	-.1229625	-.0784494
_l sex_orn_3	-.04335	.0066569	-6.51	0.000	-.0563973	-.0303027
_l sex_orn_4	.1498727	.0454411	3.30	0.001	.0608097	.2389357
age	-.0039821	.0460713	-0.09	0.931	-.0942803	.086316
visi t6m	.0669028	.0441956	1.51	0.130	-.019719	.1535246
hi v_meds	.1619172	.0548747	2.95	0.003	.0543647	.2694697
hi v_mnth	.0526489	.0395838	1.33	0.183	-.024934	.1302317
sti gma	.2622615	.0478432	5.48	0.000	.1684906	.3560324
hetrosxi sm	.0026017	.0448512	0.06	0.954	-.085305	.0905084
dss1	.0611262	.0407576	1.50	0.134	-.0187572	.1410096
dss2	.0381559	.0396502	0.96	0.336	-.0187571	.1158688
med_worries	-.0459568	.040661	-1.13	0.258	-.1256509	.0337374
soc_supp						

_l sex_orn_3

_l sex_orn_3	-.0911291	.01107	-8.23	0.000	-.1128259	-.0694323
_l sex_orn_4	-.0070663	.0480308	0.15	0.883	-.0870723	.1012048
age	-.1059135	.050099	-2.11	0.035	-.2041057	-.0077214
visi t6m	.0402554	.0435897	0.92	0.356	-.0451788	.1256897
hi v_meds	.0852924	.0444858	1.92	0.055	-.0018983	.172483
hi v_mnth	.1262668	.047018	2.69	0.007	.0341132	.2184203
sti gma	.1969631	.0455778	4.32	0.000	.1076323	.2862938
hetrosxi sm	.0453356	.0457412	0.99	0.322	-.0443156	.1349868
dss1						

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AFC_Demo_Part1_FIML_v3.log
dss2 .1053351 .0456154 2.31 0.021 .0159304 .1947397
med_worries .0518033 .0440512 1.18 0.240 -.0345355 .1381422
soc_supp -.1165324 .0477032 -2.44 0.015 -.2100289 -.0230359
-----
_lsex_orn_4
age .0389237 .0459208 0.85 0.397 -.0510793 .1289268
visi_t6m .0341872 .0453126 0.75 0.451 -.0546239 .1229983
hi_v_meds -.004202 .0446189 -0.09 0.925 -.0916535 .0832495
hi_v_mnth .07162 .0541716 1.32 0.186 -.0345544 .1777944
stigma .0188587 .0448802 0.42 0.674 -.0691049 .1068223
hetrosxi sm .1858845 .0508051 3.66 0.000 .0863084 .2854607
dss1 -.0122965 .04997 -0.25 0.806 -.1102359 .0856429
dss2 -.0135195 .0465006 -0.29 0.771 -.1046591 .07762
med_worries -.0272484 .0483256 0.56 0.573 -.067468 .1219648
soc_supp -.1488621 .0564593 -2.64 0.008 -.2595203 -.0382039
-----
age
visi_t6m -.1064121 .0456162 -2.33 0.020 -.1958183 -.0170059
hi_v_meds .3071792 .038433 7.99 0.000 .2318518 .3825065
hi_v_mnth .5079149 .0285051 17.82 0.000 .4520459 .5637839
stigma -.0853909 .0414335 -2.06 0.039 -.1665991 -.0041828
hetrosxi sm -.0033144 .0438076 -0.08 0.940 -.0891758 .082547
dss1 .1537825 .0418184 3.68 0.000 .07182 .235745
dss2 .1701401 .0421503 4.04 0.000 .0875271 .2527531
med_worries -.029866 .0426398 -0.70 0.484 -.1134386 .0537065
soc_supp -.0285178 .0421723 -0.68 0.499 -.111174 .0541383
-----
visi_t6m
hi_v_meds -.0026 .0458618 -0.06 0.955 -.0924874 .0872875
hi_v_mnth -.1511096 .0441747 -3.42 0.001 -.2376905 -.0645287
stigma -.107749 .0488479 -2.21 0.027 -.2034891 -.012009
hetrosxi sm -.0416467 .0532678 -0.78 0.434 -.1460496 .0627562
dss1 -.0224817 .0445775 -0.50 0.614 -.109852 .0648885
dss2 -.072592 .0462273 -1.57 0.116 -.1631957 .0180118
med_worries -.0770978 .050017 -1.54 0.123 -.1751294 .0209338
soc_supp -.0242724 .0472172 0.51 0.607 -.0682716 .1168164
-----
hi_v_meds
hi_v_mnth .3412781 .0411644 8.29 0.000 .2605974 .4219587
stigma -.0333266 .0426926 -0.78 0.435 -.1170027 .0503494
hetrosxi sm .0365237 .0452394 0.81 0.419 -.052144 .1251913
dss1 .1325995 .0426978 3.11 0.002 .0489134 .2162856
dss2 .2937093 .0410166 7.16 0.000 .2133183 .3741004
med_worries -.0392543 .042364 -0.93 0.354 -.1222862 .0437777
soc_supp -.0172112 .0421482 -0.41 0.683 -.09982 .0653977
-----
hi_v_mnth
stigma -.0296427 .0419305 -0.71 0.480 -.1118249 .0525395
hetrosxi sm -.0033094 .0449352 -0.07 0.941 -.0913808 .084762
dss1 .3121604 .04238 7.37 0.000 .2290972 .3952236
dss2 .374382 .0407245 9.19 0.000 .2945635 .4542005
med_worries .0788924 .0385568 2.05 0.041 .0033224 .1544624
soc_supp -.0614075 .0412133 -1.49 0.136 -.1421842 .0193691
-----
stigma
hetrosxi sm .3625421 .0433945 8.35 0.000 .2774905 .4475938
dss1 -.1303641 .0416867 -3.13 0.002 -.2120684 -.0486597
dss2 -.0272339 .0429571 -0.63 0.526 -.1114284 .0569605
med_worries .264968 .044164 6.00 0.000 .1784082 .3515279
soc_supp -.2574085 .0455565 -5.65 0.000 -.3466976 -.1681194
-----
hetrosxi sm
dss1 -.1437509 .0430111 -3.34 0.001 -.228051 -.0594507

```

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AFC_Demo_Part1_FIML_v3.log
dss2 -.0157777 .0441285 -0.36 0.721 -.1022681 .0707126
med_worries .2217628 .0442401 5.01 0.000 .1350539 .3084718
soc_supp -.2377097 .0485576 -4.90 0.000 -.3328808 -.1425387
-----
dss1
dss2 .512048 .0371702 13.78 0.000 .4391958 .5849003
med_worries -.0005337 .042937 -0.01 0.990 -.0846887 .0836214
soc_supp .1086249 .0456849 2.38 0.017 -.0190842 .1981656
-----
dss2
med_worries .0353362 .0432462 0.82 0.414 -.0494249 .1200972
soc_supp .0040186 .0421936 0.10 0.924 -.0786793 .0867166
-----
med_worries
soc_supp -.2351524 .0454394 -5.18 0.000 -.324212 -.1460927

```

// End of Part I

exit

end of do-file

log close

name: <unnamed>

log: H:\My Documents\CAPS\Methods Core\Presentations\Missing Data 2012 -

Part 1\AFC_Demo_Part1_FIML_v3.log

log type: text

closed on: 14 Dec 2012, 14:23:37