

```

1 .
2 .
3 .    cap gen whpsociso=WHPsociso

4 .
5 . *-----Social isolation Models -----
6 .
7 .
8 . *  Male Model
9 . *-----
10 . /*

>
>          Coefficient Std.Error      HACSE   t-HACSE   t-prob Part.R^2
> BSIposymp      -1.46478  0.5219     0.8332    -1.76  0.0798  0.010
> 5
> BSIglobssi    78.8130   26.11     41.84     1.88  0.0606  0.012
> 0
> BSIips         0.952409  0.4524     0.5870    1.62  0.1058  0.009
> 0
> BSIdep         1.81136   0.3513     0.3854    4.70  0.0000  0.070
> 6
> BSIphanx       1.39740   0.4819     0.6283    2.22  0.0269  0.016
> 7
> BSIhos         -1.14289  0.3950     0.4175    -2.74  0.0066  0.025
> 1
> childw1        -0.540819  0.9065     0.9830    -0.550 0.5826  0.001
> 0
> emplw16        3.71768   1.989      1.899     1.96  0.0512  0.013
> 0
> emplw25        -11.8891  6.084      6.719    -1.77  0.0778  0.010
> 6
> emplw32        5.35049   2.083      2.823     1.90  0.0591  0.012
> 2
> emplw33        -4.54916  2.324      2.613    -1.74  0.0827  0.010
> 3
> emplw34        -1.93771  4.239      3.503    -0.553 0.5805  0.001
> 1
> occ2w1         2.92963  2.181      1.698     1.73  0.0854  0.010
> 1
> occ3w1         2.14184  3.048      3.898     0.549 0.5832  0.001
> 0
> occ2w2         -6.45172  2.140      1.887    -3.42  0.0007  0.038
> 6
> occ7w2         18.7993  6.364      6.034     3.12  0.0020  0.032
> 3
> occ1w3         -3.70596  1.862      1.835    -2.02  0.0443  0.013
> 8
> occ3w3         -10.2579  2.695      3.056    -3.36  0.0009  0.037
> 3

```

> occ4w3	-5.52024	2.358	2.278	-2.42	0.0160	0.019
> 8						
> inclw1	-5.93487	2.162	1.845	-3.22	0.0014	0.034
> 3						
> inc2w2	-6.66515	1.785	1.889	-3.53	0.0005	0.041
> 0						
> inc3w2	-5.31900	1.827	1.960	-2.71	0.0070	0.024
> 7						
> inclw3	2.64052	2.064	2.219	1.19	0.2351	0.004
> 8						
> deaw2	-1.52614	1.067	1.044	-1.46	0.1450	0.007
> 3						
> deaw3	-2.59636	0.7422	0.6189	-4.19	0.0000	0.057
> 0						
> dvcew2	-5.24808	3.745	2.209	-2.38	0.0181	0.019
> 0						
> accdw2	-3.85351	1.774	1.867	-2.06	0.0399	0.014
> 4						
> accdw3	4.53051	2.037	1.908	2.37	0.0182	0.019
> 0						
> illw3	-1.68376	0.8143	0.9070	-1.86	0.0644	0.011
> 7						
> shjobw2	-0.0257525	0.02537	0.03555	-0.724	0.4694	0.001
> 8						
> shhlw1	-0.0895325	0.03207	0.03236	-2.77	0.0060	0.025
> 6						
> shhlw2	0.0885717	0.02906	0.03687	2.40	0.0169	0.019
> 4						
> shhlw3	0.0374061	0.02177	0.02578	1.45	0.1479	0.007
> 2						
> shhousw1	0.0284480	0.02825	0.03064	0.928	0.3540	0.003
> 0						
> shrelaw1	-0.0322388	0.02429	0.02565	-1.26	0.2098	0.005
> 4						
> shrelaw2	-0.0537294	0.02711	0.02556	-2.10	0.0364	0.015
> 0						
> suprtw3	-0.0698056	0.01696	0.01765	-3.96	0.0001	0.051
> 0						
> sufamw2	0.0313763	0.01787	0.01916	1.64	0.1026	0.009
> 1						
> phlthw2	-0.130255	0.04622	0.04565	-2.85	0.0046	0.027
> 2						
> mhlthw1	0.157294	0.05652	0.07700	2.04	0.0420	0.014
> 1						
> mhlthw2	-0.102581	0.05359	0.07163	-1.43	0.1532	0.007
> 0						
> mhlthw3	-0.0348549	0.03984	0.04767	-0.731	0.4652	0.001
> 8						
> physdisagw1	0.0675537	0.02651	0.03190	2.12	0.0351	0.015

```

> 2
> physdisagw3      -0.0897442   0.05381   0.05622   -1.60   0.1115   0.008
> 7
> PTSDw2          0.116686    0.07006   0.08233   1.42    0.1575   0.006
> 9
> painmedspw2     -0.262683   0.4982    0.3496   -0.751   0.4531   0.001
> 9
> painmedspw3     0.360395   0.2595    0.1606   2.24    0.0256   0.017
> 0
>
> sigma            10.4238    RSS           31618.9354
> log-likelihood   -1246.6
> no. of observations 338  no. of parameters 47
> mean(WHPSOCISO)  6.53124   se(WHPSOCISO) 15.1785
> When the log-likelihood constant is NOT included:
> AIC              4.81657   SC           5.34818
> HQ                5.02844   FPE          123.765
> When the log-likelihood constant is included:
> AIC              7.65445   SC           8.18606
> HQ                7.86632   FPE          2113.84
>
> Normality test: Chi^2(2) = 18.339 [0.0001]** 
> Hetero test:      F(77,260) = 3.7956 [0.0000]** 
> RESET23 test:     F(2,289) = 48.418 [0.0000]** 
>
>
>
> EQ( 5) Modelling WHPSOCISO by OLS-CS
> The dataset is: /Users/robertyaffee/Documents/data/research/chwk/phas
> e3/
>          data/ox/workingdatasets/MARS/gals.dta
> The estimation sample is: 1 - 340
>
>          Coefficient Std.Error   HACSE   t-HACSE   t-prob Part.R^
> 2
> BSIdep          2.68936   0.2834   0.3172   8.48    0.0000   0.176
> 7
> BSIphanx        -0.861432  0.3202   0.2628  -3.28    0.0012   0.031
> 1
> emplw25         14.5963   3.297    4.303   3.39    0.0008   0.033
> 2
> emplw33         -11.6544  15.94    1.338   -8.71   0.0000   0.184
> 8
> mhlthw1         -0.109320  0.02351  0.02273  -4.81   0.0000   0.064
> 6
>
> sigma            15.8844   RSS           84525.3375
> log-likelihood   -1420.14
> no. of observations 340  no. of parameters 5

```

```

> mean(WHPSOCISO)          10.28  se(WHPSOCISO)          18.9672
> When the log-likelihood constant is NOT included:
> AIC                      5.54527  SC                  5.60158
> HQ                       5.56771  FPE                 256.025
> When the log-likelihood constant is included:
> AIC                      8.38315  SC                  8.43946
> HQ                       8.40559  FPE                 4372.77
>
> Normality test:   Chi^2(2) = 198.40 [0.0000]** 
> Hetero test:       F(7,331) = 3.4195 [0.0015]** 
> Hetero-X test:     F(10,328) = 2.6079 [0.0046]** 
> RESET23 test:      F(2,333) = 0.28016 [0.7558]
>
> */
11 .
12 . cap gen whpsociso = WHPSOCISO

13 . // candidate illness variables for social isolation
14 . /* candidate illnesses for males
>
> foreach i in 7 {
> foreach j in 1 5 6 {
> foreach k in 3 {
> foreach m in 2 {
> foreach n in 4 {
> regress whpsociso icdx`i'nr1-icdx`i'nr28 if gender==1
> regress whpsociso icdx`j'nr1-icdx`j'nr18 if gender==1
> regress whpsociso icdx`k'nr1-icdx`k'nr11 if gender==1
> regress whpsociso icdx`m'nr1-icdx`m'nr8 if gender==1
> regress whpsociso icdx`n'nr1-icdx`n'nr20 if gender==1
> }
> }
> }
> }
> }
> */

```

```

15 .
16 . cap drop H8MalesIpred
17 . cap drop h8Msepred
18 . cap drop Mrsires
19 . cap drop upbm
20 . cap drop lpbm
21 . des icdx4nr9 icdx4nr10 icdx7nr21 icdx7nr26

```

variable name	storage type	display format	value label	variable label
icdx4nr9	double	%8.0g	icdx4nr==434.91	crbrl art ocl nos w infarc
icdx4nr10	double	%8.0g	icdx4nr==varicose veins in legs	
icdx7nr21	double	%8.0g	icdx7nr==acute renal failure	
icdx7nr26	double	%8.0g	icdx7nr==intervertebral disc dis*	

```

22 .
23 . **** Full WHPsocial model for males-----
24 . regress WHPsociso age BSIposymp BSIips BSIdep BSIphanx ///
>     emplw32 deaw2 deaw3 dvcew2 shhlw1 shhlw2 shhousw2 suprtw3 ///
>     crhtw1-crhtw3 icdx4nr9 icdx4nr10 icdx7nr21 icdx7nr26 ///
>     if gender==1, vce(cluster id)

```

Linear regression

Number of obs =	339
F(17, 338) =	.
Prob > F =	.
R-squared =	0.4968
Root MSE =	10.872

(Std. Err. adjusted for **339** clusters in id)

WHPsociso	Robust					
	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
age	.1700205	.0579318	2.93	0.004	.0560683	.2839728
BSIposymp	-.0216516	.0968927	-0.22	0.823	-.2122403	.1689372
BSIips	1.073753	.55662	1.93	0.055	-.021123	2.168628
BSIdep	2.126824	.4385046	4.85	0.000	1.264282	2.989365
BSIphanx	1.41255	.6327604	2.23	0.026	.1679057	2.657194
emplw32	5.848379	2.527965	2.31	0.021	.8758538	10.8209
deaw2	-2.69631	1.052977	-2.56	0.011	-4.767522	-.625097
deaw3	-2.070884	.628816	-3.29	0.001	-3.307769	-.8339981

dvcew2	-3.551127	2.243778	-1.58	0.114	-7.964655	.8624015
shhlw1	-.0664955	.0236261	-2.81	0.005	-.1129681	-.0200229
shhlw2	.0562521	.0242629	2.32	0.021	.0085267	.1039774
shhousw2	-.0544403	.0210498	-2.59	0.010	-.0958454	-.0130351
suprtw3	-.0454372	.0186249	-2.44	0.015	-.0820726	-.0088018
crhtw1	-.7211362	.9839712	-0.73	0.464	-2.656615	1.214342
crhtw2	1.406166	2.38729	0.59	0.556	-3.289651	6.101984
crhtw3	-1.045664	2.155255	-0.49	0.628	-5.285067	3.193739
icdx4nr9	24.40582	2.785805	8.76	0.000	18.92612	29.88552
icdx4nr10	12.1418	5.956804	2.04	0.042	.4247197	23.85887
icdx7nr21	21.98954	4.234449	5.19	0.000	13.66035	30.31874
icdx7nr26	6.332913	6.05056	1.05	0.296	-5.568583	18.23441
_cons	-26.96642	4.808897	-5.61	0.000	-36.42556	-17.50729

```

25 .      predict H8MaleSIpred if gender==2, xb
(340 missing values generated)

26 .      predict h8Msepred if gender==2, stdp
(340 missing values generated)

27 .      predict Mrsires if gender==2, residual
(340 missing values generated)

28 .      gen upbm = H8MaleSIpred + 1.96*h8Msepred
(340 missing values generated)

29 .      gen lpbm = H8MaleSIpred - 1.96*h8Msepred
(340 missing values generated)

30 .
31 . scatter H8MaleSIpred Mrsires || lowess H8MaleSIpred Mrsires ///
>    || lowess upbm Mrsires || lowess lpbm Mrsires, ///
>    title(Prediction interval of Male social isolation model)   ///
>    ytitle(Predicted Male Social Isolation)

32 .

```

```

33 . gr save MSocIsoPredInt.gph, replace
      (file MSocIsoPredInt.gph saved)

34 . gr export MSocIsoPredInt.eps, replace
      (file MSocIsoPredInt.eps written in EPS format)

35 . gr use MsocIsoPredInt.gph

36 .
37 . cap drop H8MaleSIpred

38 . cap drop h8Msepred

39 . cap drop Mrsires

40 . cap drop upbm

41 . cap drop lpbm

42 . des icdx4nr9 icdx4nr10 icdx7nr21 icdx7nr26

```

variable name	storage type	display format	value label	variable label
icdx4nr9	double	%8.0g	icdx4nr==434.91	crbrl art ocl nos w infarc
icdx4nr10	double	%8.0g	icdx4nr==varicose veins in legs	
icdx7nr21	double	%8.0g	icdx7nr==acute renal failure	
icdx7nr26	double	%8.0g	icdx7nr==intervertebral disc dis*	

```

43 .
44 . **** Trimmed WHPsocial model for males-----
45 . regress WHPsociso age BSIips BSIdep BSIphanx ///
>     emplw32 deaw2 deaw3 dvcew2 shhlw1 shhlw2 shhousw2 suprtw3 ///
>     crhtw1-crhtw3 icdx4nr9 icdx4nr10 icdx7nr21 ///
>     if gender==1, vce(cluster id)

```

Linear regression	Number of obs =	339
	F(16, 338) =	.
	Prob > F =	.
	R-squared =	0.4962
	Root MSE =	10.844

(Std. Err. adjusted for 339 clusters in id)

WHPsociso	Robust					
	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
age	.1702193	.0582689	2.92	0.004	.0556039	.2848348
BSIips	1.041183	.4358448	2.39	0.017	.183873	1.898493
BSIdep	2.046723	.3610228	5.67	0.000	1.336588	2.756857
BSIphanx	1.37608	.460444	2.99	0.003	.4703829	2.281776
emplw32	5.873105	2.511393	2.34	0.020	.9331761	10.81303
deaw2	-2.681306	1.071113	-2.50	0.013	-4.788193	-.5744192
deaw3	-2.097814	.6311584	-3.32	0.001	-3.339307	-.8563209
dvcew2	-3.40953	2.187922	-1.56	0.120	-7.713188	.8941275
shhlw1	-.0671173	.0238963	-2.81	0.005	-.1141215	-.020113
shhlw2	.0555722	.023593	2.36	0.019	.0091646	.1019798
shhousw2	-.0554974	.0207116	-2.68	0.008	-.0962373	-.0147576
suprtw3	-.0468964	.0170784	-2.75	0.006	-.0804896	-.0133031
crhtw1	-.7561203	.991878	-0.76	0.446	-2.707151	1.194911
crhtw2	1.237723	2.382447	0.52	0.604	-3.448567	5.924014
crhtw3	-.9908577	2.119222	-0.47	0.640	-5.159383	3.177668
icdx4nr9	24.43334	2.82846	8.64	0.000	18.86974	29.99694
icdx4nr10	12.22233	5.753835	2.12	0.034	.9044962	23.54017
icdx7nr21	21.90734	3.88123	5.64	0.000	14.27293	29.54174
_cons	-27.33982	4.622288	-5.91	0.000	-36.4319	-18.24775

```

46 . *-- no social isolation threat relationships for males
47 . predict H8MaleSIpred if gender==2, xb
   (340 missing values generated)

48 . predict h8Msepred if gender==2, stdp
   (340 missing values generated)

49 . predict Mrsires if gender==2, residual
   (340 missing values generated)

50 . gen upbm = H8MaleSIpred + 1.96*h8Msepred
   (340 missing values generated)

```



```

64 . set more off

65 . foreach var in age BSIips BSIdep BSIphanx ///
>     emplw32 deaw2 deaw3 dvcew2 shhlw1 shhlw2 shhousw2 suprtw3 ///
>     icdx4nr9 icdx4nr10 icdx7nr21 {
    2. sem (crhtw1-> `var')(`var'> whpsociso) if gender==1, nocapslatent iterat
> e(50)
    3. sem (crhtw2-> `var')(`var'> whpsociso) if gender==1, nocapslatent iterat
> e(50)
    4. sem (crhtw3-> `var')(`var'> whpsociso) if gender==1, nocapslatent iterat
> e(50)
    5. }

```

Endogenous variables

Observed: **age whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-3158.3801**
Iteration 1: log likelihood = **-3158.3801**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3158.3801**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
<hr/>							
>	1]						
<hr/>							
Structural							
age <-							
crhtw1		4.266795	.6763452	6.31	0.000	2.941183	5.5924
>	08						
_cons		49.78043	.635245	78.36	0.000	48.53537	51.025
>	49						
<hr/>							
<hr/>							
whpsociso <-							
age		.1792895	.0652429	2.75	0.006	.0514157	.30716
>	33						
_cons		-2.485828	3.305857	-0.75	0.452	-8.965188	3.9935

```

> 31
-----
> —
Variance
e.age | 133.6667 10.26687
> 83
e.whpsociso | 215.5252 16.55439
> 08
-----
> —
LR test of model vs. saturated: chi2(1) = 0.32, Prob > chi2 = 0.5737

Endogenous variables

Observed: age whpsociso

Exogenous variables

Observed: crhtw2

Fitting target model:

Iteration 0: log likelihood = -3148.8835
Iteration 1: log likelihood = -3148.8835

Structural equation model
Number of obs = 339
Estimation method = ml
Log likelihood = -3148.8835

-----
> —
OIM
| Coef. Std. Err. z P>|z| [95% Conf. Interva
> 1]
-----
> —
Structural
age <- crhtw2 | 4.951499 .6691348 7.40 0.000 3.640019 6.2629
> 79
_cons | 50.08515 .6280741 79.74 0.000 48.85415 51.316
> 16
-----
> —
whpsociso <- age | .1792895 .0652429 2.75 0.006 .0514157 .30716
> 33
_cons | -2.485828 3.305857 -0.75 0.452 -8.965188 3.9935
> 31

```

Variance						
e.age	128.5885	9.876824			110.617	149.47
e.whpsociso	215.5252	16.55439			185.4034	250.54

> —
LR test of model vs. saturated: chi2(1) = **4.02**, Prob > chi2 = **0.0451**

Endogenous variables

Observed: **age whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3149.3769**
Iteration 1: log likelihood = **-3149.3769**

Structural equation model	Number of obs	=	339
Estimation method = ml			
Log likelihood = -3149.3769			

> —						
		OIM				
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva
> 1]						
> —						
Structural						
age <-						
crhtw3	4.882082	.6713623	7.27	0.000	3.566236	6.1979
> 28						
_cons	50.07363	.629633	79.53	0.000	48.83957	51.307
> 69						
> —						
whpsociso <-						
age	.1792895	.0652429	2.75	0.006	.0514157	.30716
> 33						
_cons	-2.485828	3.305857	-0.75	0.452	-8.965188	3.9935
> 31						

```

> --
Variance
      e.age | 129.2045  9.924137          111.1469  150.19
> 59
      e.whpsociso | 215.5252  16.55439          185.4034  250.54
> 08

```

> --
LR test of model vs. saturated: chi2(1) = 3.94, Prob > chi2 = 0.0473

Endogenous variables

Observed: **BSIips whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-2574.5462**
 Iteration 1: log likelihood = **-2574.5462**

Structural equation model Number of obs = 339
 Estimation method = **ml**
 Log likelihood = **-2574.5462**

```

> --
      | OIM
      | Coef. Std. Err. z P>|z| [95% Conf. Interva
> 1]

```

```

> --
Structural
  BSIips <-
    crhtwl | .2430919 .1379814 1.76 0.078 -.0273466 .51353
> 04
    _cons | 5.892955 .1295965 45.47 0.000 5.63895 6.1469
> 59

```

```

> --
  whpsociso <-
    BSIips | 3.130531 .2947148 10.62 0.000 2.5529 3.7081
> 61
    _cons | -12.00936 1.862428 -6.45 0.000 -15.65965 -8.3590
> 71

```

Variance						
e.BSIips	5.563233	.4273094			4.785716	6.4670
> 72						
e.whpsociso	165.3062	12.6971			142.203	192.16

> —

LR test of model vs. saturated: chi2(1) = **0.38**, Prob > chi2 = **0.5380**

Endogenous variables

Observed: **BSIips whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2564.4593**

Iteration 1: log likelihood = **-2564.4593**

Structural equation model			Number of obs	=	339
Estimation method	= ml				
Log likelihood	= -2564.4593				

> —						
> 1]			OIM			
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva
> —						
Structural						
BSIips <-						
crhtw2	.5758156	.1362729	4.23	0.000	.3087256	.84290
> 56						
_cons	5.964361	.1279107	46.63	0.000	5.713661	6.2150
> 62						
> —						
whpsociso <-						
BSIips	3.130531	.2947148	10.62	0.000	2.5529	3.7081
> 61						
_cons	-12.00936	1.862428	-6.45	0.000	-15.65965	-8.3590
> 71						
> —						
Variance						

e.BSIips	5.333276	.4096465	4.587897	6.1997
> 54				
e.whpsociso	165.3062	12.6971	142.203	192.16
> 29				

> —

LR test of model vs. saturated: chi2(1) = **0.87**, Prob > chi2 = **0.3498**

Endogenous variables

Observed: **BSIips whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2562.7367**
 Iteration 1: log likelihood = **-2562.7367**

Structural equation model	Number of obs	=	339
Estimation method = ml			
Log likelihood = -2562.7367			

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —						
> 1]						
> —						
Structural						
BSIips <-						
crhtw3	.6199075	.1358357	4.56	0.000	.3536744	.88614
> 05						
_cons	5.972633	.1273927	46.88	0.000	5.722948	6.2223
> 18						
> —						
whpsociso <-						
BSIips	3.130531	.2947148	10.62	0.000	2.5529	3.7081
> 61						
_cons	-12.00936	1.862428	-6.45	0.000	-15.65965	-8.3590
> 71						
> —						
Variance						
e.BSIips	5.289219	.4062625			4.549997	6.1485

```

> 39
e.whpsociso | 165.3062    12.6971                      142.203    192.16
> 29
|
> —
LR test of model vs. saturated: chi2(1) = 0.52, Prob > chi2 = 0.4721

Endogenous variables

Observed: BSIdep whpsociso

Exogenous variables

Observed: crhtwl

Fitting target model:

Iteration 0: log likelihood = -2614.983
Iteration 1: log likelihood = -2614.983

Structural equation model                               Number of obs      =      339
Estimation method = ml
Log likelihood     = -2614.983

|
> —
|
> 1]          OIM
           Coef.   Std. Err.      z   P>|z|   [95% Conf. Interva
|
> —
Structural
BSIdep <-
  crhtwl | .5548862   .1648543    3.37   0.001   .2317777   .87799
> 48
  _cons | 8.199803   .1548364   52.96   0.000   7.89633   8.5032
> 77
|
> —
whpsociso <-
  BSIdep | 2.989016   .2298724   13.00   0.000   2.538475   3.4395
> 58
  _cons | -17.94307   1.979525   -9.06   0.000  -21.82287  -14.063
> 28
|
> —
Variance
e.BSIdep | 7.941215   .6099611                      6.831351   9.2313
> 96

```

e.whpsociso	147.0067	11.29152	126.461	170.89
> 03				

> —
LR test of model vs. saturated: chi2(1) = 0.39, Prob > chi2 = 0.5314

Endogenous variables

Observed: **BSIdep whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2603.8171**
Iteration 1: log likelihood = **-2603.8171**

Structural equation model Number of obs = 339
Estimation method = **ml**
Log likelihood = **-2603.8171**

		OIM				
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva
> 1]						
> —						
Structural						
BSIdep <-						
crhtw2	.8704939	.1622957	5.36	0.000	.5524002	1.1885
> 88						
_cons	8.281121	.1523366	54.36	0.000	7.982547	8.5796
> 96						
> —						
whpsociso <-						
BSIdep	2.989016	.2298724	13.00	0.000	2.538475	3.4395
> 58						
_cons	-17.94307	1.979525	-9.06	0.000	-21.82287	-14.063
> 28						
> —						
Variance						
e.BSIdep	7.564653	.5810375			6.507417	8.7936
> 55						
e.whpsociso	147.0067	11.29152			126.461	170.89

```

> 03
|
> —
LR test of model vs. saturated: chi2(1) = 0.02, Prob > chi2 = 0.8747

Endogenous variables

Observed: BSIdep whpsociso

Exogenous variables

Observed: crhtw3

Fitting target model:

Iteration 0: log likelihood = -2602.7314
Iteration 1: log likelihood = -2602.7314

Structural equation model                               Number of obs = 339
Estimation method = ml
Log likelihood = -2602.7314

|
> —
          OIM
      Coef. Std. Err. z P>|z| [95% Conf. Interva
> 1]
|
> —
Structural
  BSIdep <-
    crhtw3 | .8942456 .1620792 5.52 0.000 .5765761 1.2119
> 15
    _cons | 8.285721 .152005 54.51 0.000 7.987796 8.5836
> 45
|
> —
  whpsociso <-
    BSIdep | 2.989016 .2298724 13.00 0.000 2.538475 3.4395
> 58
    _cons | -17.94307 1.979525 -9.06 0.000 -21.82287 -14.063
> 28
|
> —
Variance
  e.BSIdep | 7.530408 .5784071 6.477957 8.7538
> 46
  e.whpsociso | 147.0067 11.29152 126.461 170.89
> 03

```

```
> —  
LR test of model vs. saturated: chi2(1) = 0.09, Prob > chi2 = 0.7679
```

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-2540.0263**
Iteration 1: log likelihood = **-2540.0263**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2540.0263**

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> 1]						
> —						
Structural						
BSIphanx <-						
crhtwl	.3096038	.1222478	2.53	0.011	.0700025	.54920
> 51						
_cons	6.406832	.114819	55.80	0.000	6.181791	6.6318
> 73						
> —						
whpsociso <-						
BSIphanx	3.302734	.3374787	9.79	0.000	2.641288	3.964
> 18						
_cons	-14.68418	2.262243	-6.49	0.000	-19.1181	-10.250
> 27						
> —						
Variance						
e.BSIphanx	4.366851	.3354158			3.75654	5.0763
> 18						
e.whpsociso	171.7912	13.19521			147.7817	199.70
> 15						

```
> —  
LR test of model vs. saturated: chi2(1) = 0.07, Prob > chi2 = 0.7929
```

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2529.7042**
Iteration 1: log likelihood = **-2529.7042**

Structural equation model Number of obs = 339
Estimation method = **ml**
Log likelihood = **-2529.7042**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> 1]							
<hr/>							
> —	Structural						
> 95	BSIphanx <- crhtw2	.5634246	.1206504	4.67	0.000	.3269542	.7998
> 66	_cons	6.466506	.1132468	57.10	0.000	6.244546	6.6884
<hr/>							
> —	whpsociso <- BSIphanx	3.302734	.3374787	9.79	0.000	2.641288	3.964
> 27	_cons	-14.68418	2.262243	-6.49	0.000	-19.1181	-10.250
<hr/>							
> —	Variance						
> 36	e.BSIphanx	4.180539	.3211053			3.596267	4.8597
> 15	e.whpsociso	171.7912	13.19521			147.7817	199.70
<hr/>							

LR test of model vs. saturated: chi2(1) = 0.71, Prob > chi2 = 0.3984

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = -2528.2574

Iteration 1: log likelihood = -2528.2574

Structural equation model Number of obs = 339
Estimation method = ml
Log likelihood = -2528.2574

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	BSIphanx <-						
>	crhtw3	.5923644	.1203612	4.92	0.000	.3564609	.8282
>	68						
	_cons	6.471983	.11288	57.34	0.000	6.250742	6.6932
>	24						
>	—						
	whpsociso <-						
	BSIphanx	3.302734	.3374787	9.79	0.000	2.641288	3.964
>	18						
	_cons	-14.68418	2.262243	-6.49	0.000	-19.1181	-10.250
>	27						
>	—						
	Variance						
	e.BSIphanx	4.152757	.3189714			3.572368	4.8274
>	41						
	e.whpsociso	171.7912	13.19521			147.7817	199.70
>	15						
>	—						
	LR test of model vs. saturated: chi2(1) = 0.47, Prob > chi2 = 0.4917						

Endogenous variables

Observed: **emplw32 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1917.5086**

Iteration 1: log likelihood = **-1917.5086**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1917.5086**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	emplw32 <-						
>	crhtwl	.0267947	.0172799	1.55	0.121	-.0070732	.06066
>	26						
>	_cons	.1011532	.0162298	6.23	0.000	.0693433	.1329
>	63						
>	—						
	whpsociso <-						
>	emplw32	4.6023	2.708154	1.70	0.089	-.7055838	9.9101
>	83						
>	_cons	5.882549	.8449488	6.96	0.000	4.22648	7.5386
>	18						
>	—						
	Variance						
>	e.emplw32	.0872502	.0067016			.0750561	.10142
>	54						
>	e.whpsociso	218.4652	16.78021			187.9325	253.95
>	84						
>	—						
	LR test of model vs. saturated: chi2(1) =						1.63, Prob > chi2 = 0.2017

Endogenous variables

Observed: **emplw32 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1913.8831**
Iteration 1: log likelihood = **-1913.8831**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1913.8831**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	emplw32 <-						
>	crhtw2	.0339301	.0173943	1.95	0.051	-.0001621	.06802
>	_cons	.1035885	.0163269	6.34	0.000	.0715884	.13558
>	87						
>	—						
	whpsociso <-						
>	emplw32	4.6023	2.708154	1.70	0.089	-.7055838	9.9101
>	_cons	5.882549	.8449488	6.96	0.000	4.22648	7.5386
>	18						
>	—						
	Variance						
>	e.emplw32	.0868937	.0066743			.0747495	.10101
>	e.whpsociso	218.4652	16.78021			187.9325	253.95
>	84						
>	—						
	LR test of model vs. saturated: chi2(1) =				7.34,	Prob > chi2 =	0.0067

Endogenous variables

Observed: **emplw32 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1914.4965**
Iteration 1: log likelihood = **-1914.4965**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1914.4965**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	64	emplw32 <- crhtw3	.0242487	.0174584	1.39	0.165	-.0099691 .05846
>	42	_cons	.1018133	.0163732	6.22	0.000	.0697223 .13390
>	—						
>	83	whpsociso <- emplw32	4.6023	2.708154	1.70	0.089	-.7055838 9.9101
>	18	_cons	5.882549	.8449488	6.96	0.000	4.22648 7.5386
>	—						
	Variance						
>	68	e.emplw32	.0873718	.006711			.0751608 .10156
>	84	e.whpsociso	218.4652	16.78021			187.9325 253.95
>	—						
	LR test of model vs. saturated: chi2(1) = 7.42, Prob > chi2 = 0.0064						

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-2159.049**
Iteration 1: log likelihood = **-2159.049**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2159.049**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> 1]							
> —							
Structural							
deaw2 <-	crhtw1	-.0430551	.0350885	-1.23	0.220	-.1118274	.02571
> 71							
_cons		.2888663	.0329563	8.77	0.000	.2242732	.35345
> 94							
> —							
whpsociso <-	deaw2	.2843554	1.341015	0.21	0.832	-2.343986	2.9126
> 97							
_cons		6.24668	.8979573	6.96	0.000	4.486716	8.0066
> 44							
> —							
Variance							
e.deaw2		.3597634	.0276333			.3094829	.41821
> 29							
e.whpsociso		220.2971	16.92092			189.5084	256.0
> 88							
> —							
LR test of model vs. saturated: chi2(1) =		2.04 , Prob > chi2 = 0.1537					

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2156.7671**
Iteration 1: log likelihood = **-2156.7671**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2156.7671**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> l]							
> —							
Structural							
deaw2 <-	crhtw2	.015978	.0354612	0.45	0.652	-.0535247	.08548
66							
_cons		.2979253	.0332852	8.95	0.000	.2326876	.3631
63							
> —							
whpsociso <-	deaw2	.2843554	1.341015	0.21	0.832	-2.343986	2.9126
97							
_cons		6.24668	.8979573	6.96	0.000	4.486716	8.0066
44							
> —							
Variance							
e.deaw2		.361145	.0277394			.3106714	.41981
89							
e.whpsociso		220.2971	16.92092			189.5084	256.0
88							
> —							
LR test of model vs. saturated: chi2(1) = 8.18 , Prob > chi2 = 0.0042							

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2156.3568**
Iteration 1: log likelihood = **-2156.3568**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2156.3568**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
deaw2 <-	crhtw3	.0221721	.0354845	0.62	0.532	-.0473763	.09172
> 05							
_cons		.2990708	.0332789	8.99	0.000	.2338452	.36429
> 63							
>	—						
whpsociso <-							
deaw2		.2843554	1.341015	0.21	0.832	-2.343986	2.9126
> 97							
_cons		6.24668	.8979573	6.96	0.000	4.486716	8.0066
> 44							
>	—						
Variance							
e.deaw2		.3609456	.0277241			.3104998	.41958
> 71							
e.whpsociso		220.2971	16.92092			189.5084	256.0
> 88							
>	—						
LR test of model vs. saturated: chi2(1) = 8.00 , Prob > chi2 = 0.0047							

Endogenous variables

Observed: **deaw3 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

```
Iteration 0: log likelihood = -2298.1311  
Iteration 1: log likelihood = -2298.1311
```

Structural equation model Number of obs = 339
Estimation method = ml
Log likelihood = -2298.1311

```

> --
|          OIM
|      Coef.   Std. Err.      z    P>|z|      [95% Conf. Interva
> l]
|_____
> --
Structural
  deaw3 <- crhtwl | -.063338   .0528845   -1.20   0.231   -.1669897   .04031
> 37
|      _cons | .5308215   .0496708   10.69   0.000   .4334685   .62817
> 45
|_____
> --
  whpsociso <- deaw3 | -.1269986   .889881   -0.14   0.887   -1.871133   1.6171
> 36
|      _cons | 6.399117   .9384319   6.82   0.000   4.559825   8.238
> 41
|_____
> --
Variance
  e.deaw3 | .8172276   .0627709                   .7030118   .94999
> 96
  e.whpsociso | 220.3131   16.92215                   189.5221   256.10
> 66
|_____
> --
LR test of model vs. saturated: chi2(1) = 1.97, Prob > chi2 = 0.1606

```

Endogenous variables

Observed: **deaw3 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2295.9125**
Iteration 1: log likelihood = **-2295.9125**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2295.9125**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	deaw3 <-						
>	31 crhtw2	.0039511	.0534561	0.07	0.941	-.100821	.10872
>	29 _cons	.54055	.0501758	10.77	0.000	.4422072	.63889
>	—						
whpsociso <-							
	deaw3	-.1269986	.889881	-0.14	0.887	-1.871133	1.6171
>	36 _cons	6.399117	.9384319	6.82	0.000	4.559825	8.238
>	41						
>	—						
Variance							
	e.deaw3	.8206723	.0630355			.7059751	.95400
>	39 e.whpsociso	220.3131	16.92215			189.5221	256.10
>	66						
>	—						
LR test of model vs. saturated: chi2(1) =				8.21,	Prob > chi2 = 0.0042		

Endogenous variables

Observed: **deaw3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2295.5882**
Iteration 1: log likelihood = **-2295.5882**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-2295.5882**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
deaw3 <-	crhtw3	-.0076977	.0535049	-0.14	0.886	-.1125653	.09716
>	99						
_cons		.5384046	.0501792	10.73	0.000	.4400552	.63675
>	41						
>	—						
whpsociso <-							
deaw3		-.1269986	.889881	-0.14	0.887	-1.871133	1.6171
>	36						
_cons		6.399117	.9384319	6.82	0.000	4.559825	8.238
>	41						
>	—						
Variance							
e.deaw3		.8206354	.0630326			.7059434	.95396
>	11						
e.whpsociso		220.3131	16.92215			189.5221	256.10
>	66						
>	—						
LR test of model vs. saturated: chi2(1) = 8.03 , Prob > chi2 = 0.0046							

Endogenous variables

Observed: dvcew2 whpsociso

Exogenous variables

Observed: crhtwl

Fitting target model:

Iteration 0: log likelihood = **-1712.5829**
Iteration 1: log likelihood = **-1712.5829**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1712.5829**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> 1]							
> 96	Structural						
	dvcew2 <-						
	crhtwl	.0045736	.0094012	0.49	0.627	-.0138525	.02299
	_cons	.0271987	.0088299	3.08	0.002	.0098923	.0445
> 43							
	whpsociso <-						
	dvcew2	.8189595	5.014617	0.16	0.870	-9.009509	10.647
	_cons	6.308818	.8170698	7.72	0.000	4.707391	7.9102
> 16							
	Variance						
	e.dvcew2	.0258258	.0019837			.0222164	.03002
	e.whpsociso	220.309	16.92183			189.5186	256.10
> 18							
> —							
	LR test of model vs. saturated: chi2(1) = 1.98 , Prob > chi2 = 0.1599						

Endogenous variables

Observed: dvcew2 whpsociso

Exogenous variables

Observed: crhtw2

Fitting target model:

Iteration 0: log likelihood = **-1709.7573**
Iteration 1: log likelihood = **-1709.7573**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1709.7573**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> 1]							
> 2	Structural						
> 36	dvcew2 <- crhtw2	.0014884	.0094858	0.16	0.875	-.0171035	.02008
> 43	_cons	.0268225	.0089037	3.01	0.003	.0093715	.04427
> 46	whpsociso <- dvcew2	.8189595	5.014617	0.16	0.870	-9.009509	10.647
> 18	_cons	6.308818	.8170698	7.72	0.000	4.707391	7.9102
>							
LR test of model vs. saturated: chi2(1) = 8.20 , Prob > chi2 = 0.0042							

Endogenous variables

Observed: dvcew2 whpsociso

Exogenous variables

Observed: crhtw3

Fitting target model:

Iteration 0: log likelihood = **-1709.4458**

Iteration 1: log likelihood = **-1709.4458**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1709.4458**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	dvcew2 <- crhtw3	.0011383	.0094948	0.12	0.905	-.0174712	.01974
>	79						
>	_cons	.0267584	.0089047	3.00	0.003	.0093056	.04421
>	13						
>	—						
	whpsociso <- dvcew2	.8189595	5.014617	0.16	0.870	-9.009509	10.647
>	43						
>	_cons	6.308818	.8170698	7.72	0.000	4.707391	7.9102
>	46						
>	—						
	Variance						
>	e.dvcew2	.0258427	.001985			.022231	.03004
>	13						
>	e.whpsociso	220.309	16.92183			189.5186	256.10
>	18						
>	—						
	LR test of model vs. saturated: chi2(1) = 8.03 , Prob > chi2 = 0.0046						

Endogenous variables

Observed: **shhlw1 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-3510.8551**

Iteration 1: log likelihood = **-3510.8551**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3510.8551**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
<hr/>							
>	1]						
<hr/>							
>	—						
Structural							
	shhlw1 <-						
>	02 crhtw1	15.86868	1.893069	8.38	0.000	12.15833	19.579
>	24 _cons	36.65936	1.778031	20.62	0.000	33.17448	40.144
<hr/>							
>	—						
whpsociso <-							
	shhlw1	.0134276	.0226619	0.59	0.554	-.0309889	.0578
>	44 _cons	5.868597	1.121218	5.23	0.000	3.671049	8.0661
>	44						
<hr/>							
>	—						
Variance							
	e.shhlw1	1047.175	80.43302			900.8217	1217.3
>	06 e.whpsociso	220.0984	16.90566			189.3374	255.8
>	57						
<hr/>							
>	—						
LR test of model vs. saturated: chi2(1) = 1.64 , Prob > chi2 = 0.2010							

Endogenous variables

Observed: **shhlw1 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3507.0758**
Iteration 1: log likelihood = **-3507.0758**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3507.0758**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	21	shhlw1 <- crhtw2	16.19799	1.904742	8.50	0.000	12.46476 19.931
>	82	_cons	37.38468	1.787859	20.91	0.000	33.88054 40.888
>	—						
>	44	whpsociso <- shhlw1	.0134276	.0226619	0.59	0.554	-.0309889 .0578
>	44	_cons	5.868597	1.121218	5.23	0.000	3.671049 8.0661
>	—						
	Variance						
>	33	e.shhlw1	1041.951	80.03174			896.3275 1211.2
>	57	e.whpsociso	220.0984	16.90566			189.3374 255.8
>	—						
LR test of model vs. saturated: chi2(1) = 8.30 , Prob > chi2 = 0.0040							

Endogenous variables

Observed: **shhlw1 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3508.0489**

Iteration 1: log likelihood = **-3508.0489**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3508.0489**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	shhlw1 <-						
>	19	crhtw3	15.92023	1.913789	8.32	0.000	12.16927 19.671
>	46	_cons	37.33765	1.794835	20.80	0.000	33.81983 40.855
>	—						
Variance							
	e.shhlw1	.0134276	.0226619	0.59	0.554	-.0309889	.0578
>	84	_cons	5.868597	1.121218	5.23	0.000	3.671049 8.0661
>	57						
>	—						
LR test of model vs. saturated: chi2(1) = 8.08 , Prob > chi2 = 0.0045							

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3568.5774**
Iteration 1: log likelihood = **-3568.5774**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3568.5774**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	shhlw2 <-						
>	crhtwl	9.885255	2.247166	4.40	0.000	5.480891	14.289
>	62						
>	_cons	46.47567	2.11061	22.02	0.000	42.33895	50.612
>	39						
>	—						
	whpsociso <-						
>	shhlw2	.021999	.0203777	1.08	0.280	-.0179406	.06193
>	86						
>	_cons	5.339049	1.221161	4.37	0.000	2.945617	7.732
>	48						
>	—						
	Variance						
>	e.shhlw2	1475.559	113.337			1269.335	1715.2
>	88						
>	e.whpsociso	219.5715	16.86518			188.8842	255.24
>	45						
>	—						
	LR test of model vs. saturated: chi2(1) = 1.42 , Prob > chi2 = 0.2330						

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3562.3959**
Iteration 1: log likelihood = **-3562.3959**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3562.3959**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	shhlw2 <- crhtw2	11.51088	2.245057	5.13	0.000	7.110648	15.911
>	11						
>	_cons	47.18888	2.107292	22.39	0.000	43.05867	51.31
>	91						
>	—						
	whpsociso <- shhlw2	.021999	.0203777	1.08	0.280	-.0179406	.06193
>	86						
>	_cons	5.339049	1.221161	4.37	0.000	2.945617	7.732
>	48						
>	—						
	Variance						
>	e.shhlw2	1447.537	111.1846			1245.229	1682.7
>	13						
>	e.whpsociso	219.5715	16.86518			188.8842	255.24
>	45						
>	—						
	LR test of model vs. saturated: chi2(1) = 7.15 , Prob > chi2 = 0.0075						

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3562.369**
Iteration 1: log likelihood = **-3562.369**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3562.369**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	shhlw2 <-						
>	crhtw3	11.39382	2.249076	5.07	0.000	6.985713	15.801
>	93						
>	_cons	47.17026	2.109282	22.36	0.000	43.03614	51.304
>	38						
>	—						
	whpsociso <-						
>	shhlw2	.021999	.0203777	1.08	0.280	-.0179406	.06193
>	86						
>	_cons	5.339049	1.221161	4.37	0.000	2.945617	7.732
>	48						
>	—						
	Variance						
>	e.shhlw2	1450.014	111.3749			1247.36	1685.5
>	92						
>	e.whpsociso	219.5715	16.86518			188.8842	255.24
>	45						
>	—						
	LR test of model vs. saturated: chi2(1) =				6.99,	Prob > chi2 = 0.0082	

Endogenous variables

Observed: **shhousw2 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-3577.437**
Iteration 1: log likelihood = **-3577.437**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3577.437**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	shhousw2 <- crhtw1	11.95574	2.302876	5.19	0.000	7.442191	16.46	
>	93	_cons	40.39825	2.162934	18.68	0.000	36.15897	44.637
>	52							
>	—							
	whpsociso <- shhousw2	.0043029	.0197095	0.22	0.827	-.034327	.04293	
>	29	_cons	6.164041	1.109781	5.55	0.000	3.988911	8.3391
>	71							
>	—							
	Variance							
>	e.shhousw2	1549.627	119.0262			1333.051	1801.	
>	39	e.whpsociso	220.2954	16.92079			189.5069	256.0
>	86							
>	—							
	LR test of model vs. saturated: chi2(1) = 1.97, Prob > chi2 = 0.1607							

Endogenous variables

Observed: **shhousw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3566.9124**
Iteration 1: log likelihood = **-3566.9124**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3566.9124**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	shhousw2 <-						
>	75 crhtw2	15.01884	2.271427	6.61	0.000	10.56692	19.470
>	42 _cons	41.46269	2.132043	19.45	0.000	37.28396	45.641
>	—						
whpsociso <-							
	shhousw2	.0043029	.0197095	0.22	0.827	-.034327	.04293
>	29 _cons	6.164041	1.109781	5.55	0.000	3.988911	8.3391
>	71						
>	—						
Variance							
	e.shhousw2	1481.741	113.8119			1274.653	1722.4
>	75 e.whpsociso	220.2954	16.92079			189.5069	256.0
>	86						
>	—						
LR test of model vs. saturated: chi2(1) = 8.80 , Prob > chi2 = 0.0030							

Endogenous variables

Observed: **shhousw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3566.867**
Iteration 1: log likelihood = **-3566.867**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3566.867**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	shhousw2 <-						
>	85 crhtw3	14.93921	2.27537	6.57	0.000	10.47957	19.398
>	31 _cons	41.45187	2.133941	19.43	0.000	37.26942	45.634
>	—						
whpsociso <-							
	shhousw2	.0043029	.0197095	0.22	0.827	-.034327	.04293
>	29 _cons	6.164041	1.109781	5.55	0.000	3.988911	8.3391
>	71						
>	—						
Variance							
	e.shhousw2	1484.115	113.9942			1276.695	1725.2
>	34 e.whpsociso	220.2954	16.92079			189.5069	256.0
>	86						
>	—						
LR test of model vs. saturated: chi2(1) = 8.60 , Prob > chi2 = 0.0034							

Endogenous variables

Observed: **suprtw3 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-3579.2666**

Iteration 1: log likelihood = **-3579.2666**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3579.2666**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	74	suprtw3 <- crhtw1	-.3075828	2.378134	-0.13	0.897	-4.96864	4.3534
>	19	_cons	65.06838	2.23362	29.13	0.000	60.69057	69.446
>	—							
>	62	whpsociso <- suprtw3	-.083459	.0193059	-4.32	0.000	-.1212979	-.045
>	93	_cons	11.76475	1.48194	7.94	0.000	8.860198	14.66
>	—							
	Variance							
>	53	e.suprtw3	1652.567	126.9329			1421.604	1921.0
>	04	e.whpsociso	208.815	16.03898			179.631	242.74
>	—							
	LR test of model vs. saturated: chi2(1) = 2.01 , Prob > chi2 = 0.1564							

Endogenous variables

Observed: **suprtw3 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3575.6151**
Iteration 1: log likelihood = **-3575.6151**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3575.6151**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	suprtw3 <- crhtw2	2.892019	2.3937	1.21	0.227	-1.799546	7.5835
>	85						
>	_cons	65.64425	2.246813	29.22	0.000	61.24057	70.047
>	92						
>	—						
	whpsociso <- suprtw3	-.083459	.0193059	-4.32	0.000	-.1212979	-.045
>	62						
>	_cons	11.76475	1.48194	7.94	0.000	8.860198	14.66
>	93						
>	—						
	Variance						
>	e.suprtw3	1645.563	126.3949			1415.579	1912.9
>	11						
>	e.whpsociso	208.815	16.03898			179.631	242.74
>	04						
>	—						
	LR test of model vs. saturated: chi2(1) = 10.49 , Prob > chi2 = 0.0012						

Endogenous variables

Observed: **suprtw3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3574.6819**
Iteration 1: log likelihood = **-3574.6819**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-3574.6819**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	58	suprtw3 <- crhtw3	3.930041	2.391583	1.64	0.100	-.7573759 8.6174
>	32	_cons	65.83626	2.242932	29.35	0.000	61.44019 70.232
>	—						
>	62	whpsociso <- suprtw3	-.083459	.0193059	-4.32	0.000	-.1212979 -.045
>	93	_cons	11.76475	1.48194	7.94	0.000	8.860198 14.66
>	—						
	Variance						
>	66	e.suprtw3	1639.588	125.936			1410.439 1905.9
>	04	e.whpsociso	208.815	16.03898			179.631 242.74
>	—						
	LR test of model vs. saturated: chi2(1) = 11.01, Prob > chi2 = 0.0009						

Endogenous variables

Observed: **icdx4nr9 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-1341.3851**
Iteration 1: log likelihood = **-1341.3851**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1341.3851**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	31	icdx4nr9 <- crhtw1	-.0005647	.0031725	-0.18	0.859	-.0067826 .00565
>	96	_cons	.0028696	.0029797	0.96	0.336	-.0029705 .00870
>	—						
>	97	whpsociso <- icdx4nr9	35.91538	14.7368	2.44	0.015	7.031795 64.798
>	57	_cons	6.224615	.8003929	7.78	0.000	4.655874 7.7933
>	—						
	Variance						
>	87	e.icdx4nr9	.0029409	.0002259			.0025299 .00341
>	18	e.whpsociso	216.5325	16.63176			186.2699 251.71
>	—						
	LR test of model vs. saturated: chi2(1) = 2.09 , Prob > chi2 = 0.1484						

Endogenous variables

Observed: **icdx4nr9 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1337.3395**
Iteration 1: log likelihood = **-1337.3395**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1337.3395**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	39	icdx4nr9 <- crhtw2	.0048025	.0031895	1.51	0.132	-.0014488 .01105
>	13	_cons	.0038336	.0029938	1.28	0.200	-.0020342 .00970
>	—						
>	97	whpsociso <- icdx4nr9	35.91538	14.7368	2.44	0.015	7.031795 64.798
>	57	_cons	6.224615	.8003929	7.78	0.000	4.655874 7.7933
>	—						
	Variance						
>	63	e.icdx4nr9	.0029216	.0002244			.0025133 .00339
>	18	e.whpsociso	216.5325	16.63176			186.2699 251.71
>	—						
	LR test of model vs. saturated: chi2(1) = 7.27, Prob > chi2 = 0.0070						

Endogenous variables

Observed: **icdx4nr9 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1337.0776**
Iteration 1: log likelihood = **-1337.0776**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1337.0776**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	78	icdx4nr9 <- crhtw3	.0046896	.003193	1.47	0.142	-.0015685 .01094
>	32	_cons	.003814	.0029945	1.27	0.203	-.0020552 .00968
>	—						
>	97	whpsociso <- icdx4nr9	35.91538	14.7368	2.44	0.015	7.031795 64.798
>	57	_cons	6.224615	.8003929	7.78	0.000	4.655874 7.7933
>	—						
	Variance						
>	74	e.icdx4nr9	.0029226	.0002245			.0025141 .00339
>	18	e.whpsociso	216.5325	16.63176			186.2699 251.71
>	—						
	LR test of model vs. saturated: chi2(1) = 7.13, Prob > chi2 = 0.0076						

Endogenous variables

Observed: **icdx4nr10 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-1455.3998**
Iteration 1: log likelihood = **-1455.3998**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1455.3998**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	88	icdx4nr10 <- crhtw1	-.0007924	.0044799	-0.18	0.860	-.0095728 .0079
>	39	_cons	.0057871	.0042077	1.38	0.169	-.0024598 .01403
>	—						
>	75	whpsociso <- icdx4nr10	35.89622	10.34485	3.47	0.001	15.62068 56.171
>	38	_cons	6.118783	.7945833	7.70	0.000	4.561429 7.6761
>	—						
	Variance						
>	71	e.icdx4nr10	.0058644	.0004504			.0050448 .00681
>	37	e.whpsociso	212.7692	16.3427			183.0326 247.3
>	—						
	LR test of model vs. saturated: chi2(1) = 2.15, Prob > chi2 = 0.1422						

Endogenous variables

Observed: **icdx4nr10 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1452.3049**
Iteration 1: log likelihood = **-1452.3049**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1452.3049**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	55	icdx4nr10 <- crhtw2	.0027026	.0045166	0.60	0.550	-.0061498 .0115
>	62	_cons	.006397	.0042395	1.51	0.131	-.0019122 .01470
>	—						
>	75	whpsociso <- icdx4nr10	35.89622	10.34485	3.47	0.001	15.62068 56.171
>	38	_cons	6.118783	.7945833	7.70	0.000	4.561429 7.6761
>	—						
	Variance						
>	06	e.icdx4nr10	.0058587	.00045			.0050399 .00681
>	37	e.whpsociso	212.7692	16.3427			183.0326 247.3
>	—						
	LR test of model vs. saturated: chi2(1) = 7.85 , Prob > chi2 = 0.0051						

Endogenous variables

Observed: **icdx4nr10 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1451.9661**
Iteration 1: log likelihood = **-1451.9661**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1451.9661**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	79	icdx4nr10 <- crhtw3	.0028678	.0045205	0.63	0.526	-.0059923 .01172
>	75	_cons	.0064281	.0042396	1.52	0.129	-.0018813 .01473
>	—						
>	75	whpsociso <- icdx4nr10	35.89622	10.34485	3.47	0.001	15.62068 56.171
>	38	_cons	6.118783	.7945833	7.70	0.000	4.561429 7.6761
>	—						
	Variance						
>	97	e.icdx4nr10	.0058579	.0004499			.0050392 .00680
>	37	e.whpsociso	212.7692	16.3427			183.0326 247.3
>	—						
	LR test of model vs. saturated: chi2(1) = 7.65, Prob > chi2 = 0.0057						

Endogenous variables

Observed: **icdx7nr21 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-1341.9036**
Iteration 1: log likelihood = **-1341.9036**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1341.9036**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> 1]							
> —							
Structural							
icdx7nr21 <-	crhtw1	-.0017145	.0031712	-0.54	0.589	-.00793	.0045
01	_cons	.0027062	.0029785	0.91	0.364	-.0031316	.0085
> 44							
> —							
whpsociso <-	icdx7nr21	31.74308	14.76502	2.15	0.032	2.804166	60.681
99	_cons	6.236923	.8019259	7.78	0.000	4.665177	7.8086
> 69							
> —							
Variance							
e.icdx7nr21		.0029386	.0002257			.0025279	.0034
16	e.whpsociso	217.3628	16.69553			186.9841	252.67
> 69							
> —							
LR test of model vs. saturated: chi2(1) =		2.20 , Prob > chi2 = 0.1381					

Endogenous variables

Observed: **icdx7nr21 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1338.8723**
Iteration 1: log likelihood = **-1338.8723**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1338.8723**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	49	icdx7nr21 <- crhtw2	-.0022428	.0031978	-0.70	0.483	-.0085104 .00402
>	02	_cons	.0025372	.0030016	0.85	0.398	-.0033459 .00842
>	—						
>	99	whpsociso <- icdx7nr21	31.74308	14.76502	2.15	0.032	2.804166 60.681
>	69	_cons	6.236923	.8019259	7.78	0.000	4.665177 7.8086
>	—						
	Variance						
>	14	e.icdx7nr21	.0029369	.0002256			.0025264 .0034
>	69	e.whpsociso	217.3628	16.69553			186.9841 252.67
>	—						
LR test of model vs. saturated: chi2(1) = 8.82 , Prob > chi2 = 0.0030							

Endogenous variables

Observed: **icdx7nr21 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1338.1834**
Iteration 1: log likelihood = **-1338.1834**

Structural equation model Number of obs = **339**
Estimation method = **ml**
Log likelihood = **-1338.1834**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	86	icdx7nr21 <- crhtw3	-.003558	.0031973	-1.11	0.266	-.0098246 .00270
>	14	_cons	.0022942	.0029986	0.77	0.444	-.0035829 .00817
>	—						
>	99	whpsociso <- icdx7nr21	31.74308	14.76502	2.15	0.032	2.804166 60.681
>	69	_cons	6.236923	.8019259	7.78	0.000	4.665177 7.8086
>	—						
	Variance						
>	65	e.icdx7nr21	.0029304	.0002251			.0025209 .00340
>	69	e.whpsociso	217.3628	16.69553			186.9841 252.67
>	—						
LR test of model vs. saturated: chi2(1) = 8.95 , Prob > chi2 = 0.0028							

```

66 .
67 . * Possible male sociso indirect effects -----
> -----
68 . *-- Possible indirect effects through
69 . * wave 1 age BSIphanx BSIdep
70 . * wave 2 age BSIphanx BSIdep BSIips
71 . * wave 3 age BSIphanx BSIdep BSIips
72 . *-----
> -
73 .
74 .
75 .
76 . **** WHPsocial model for females-----
77 .
78 . /*
> EQ(10) Modelling WHPsociso by OLS-CS
> The dataset is: /Users/robertyaffee/Documents/data/research/chwk/
> phase3/data/ox/workingdatasets/MARS/gals.dta
> The estimation sample is: 1 - 340
> Dropped 1 observation(s) with missing values from the sample
>
>          Coefficient Std.Error      HACSE   t-HACSE   t-prob Part.R^
> 2
> BSIdep           1.98052    0.2300     0.2553     7.76  0.0000  0.154
> 6
> emplw25          11.6286    3.433      4.167     2.79  0.0056  0.023
> 1
> emplw33         -8.64387   15.89      1.215     -7.12  0.0000  0.133
> 4
> shhlw2           0.0501462  0.02331    0.01931    2.60  0.0098  0.020
> 1
> shrelaw2        -0.0787617  0.02919    0.02541    -3.10  0.0021  0.028
> 4
> suprtw3          -0.0484711  0.02013    0.01906    -2.54  0.0114  0.019
> 3
> mhlthw1         -0.109619   0.02841    0.02414    -4.54  0.0000  0.059
> 0
> radhw1            U  0.00467289  0.03571    0.06268    0.0745  0.9406  0.0000
> radhw2            U -0.0239948  0.08185    0.09648   -0.249  0.8037  0.0002
> radhw3            U  0.0621300  0.06962    0.05309    1.17  0.2428  0.0041
>
> sigma             15.8222   RSS          82362.0793
> log-likelihood   -1412.06
> no. of observations 339  no. of parameters       10
> mean(WHPsociso)  10.3104  se(WHPsociso)      18.987
> When the log-likelihood constant is NOT included:
> AIC              5.55188  SC                  5.66474
> HQ                5.59685  FPE                 257.725
> When the log-likelihood constant is included:

```

```

> AIC          8.38975  SC          8.50262
> HQ          8.43473  FPE        4401.81
>
> Normality test: Chi^2(2) = 208.67 [0.0000]** 
> Hetero test:   F(17,320) = 1.9160 [0.0162]*
> Hetero-X test: F(45,292) = 2.4290 [0.0000]** 
> RESET23 test:  F(2,327) = 3.8837 [0.0215]*
> */
79 .
80 .
81 . /* candidate illnesses for females social isolation model
>
> foreach i in 7 {
> foreach j in 1 5 6 {
> foreach k in 3 {
> foreach m in 2 {
> foreach n in 4 {
> regress whpsociso icdx`i'nr1-icdx`i'nr28 if gender==2
> regress whpsociso icdx`j'nr1-icdx`j'nr18 if gender==2
> regress whpsociso icdx`k'nr1-icdx`k'nr11 if gender==2
> regress whpsociso icdx`m'nr1-icdx`m'nr8 if gender==2
> regress whpsociso icdx`n'nr1-icdx`n'nr20 if gender==2
> }
> }
> }
> }
> }
> */
82 . des icdx1nr12 icdx5nr4 icdx6nr3 icdx6nr11 icdx6nr12 icdx6nr15 icdx7nr26

```

variable	name	storage	display	value	
		type	format	label	variable label
icdx1nr12		double	%8.0g		icdx1nr==531 gastric ulcer
icdx5nr4		double	%8.0g		icdx5nr==rheum fev w/o hrt
					involv
icdx6nr3		double	%8.0g		icdx6nr==290.12 presenile
					delusion
icdx6nr11		double	%8.0g		icdx6nr==regional enteritis
icdx6nr12		double	%8.0g		icdx6nr==575.1 cholecystitis
icdx6nr15		double	%8.0g		icdx6nr==renal/ureteral calculus
icdx7nr26		double	%8.0g		icdx7nr==intervertebral disc
					dis*

```

83 .
84 .
85 . // Full female social isolation crhtw model
86 . cap drop H8FemSIpred

87 . cap drop h8sepred

88 . cap drop rsires

89 . cap drop upb

90 . cap drop lpb

91 . regress WHPsociso age BSIdep BSIphanx sepaw2 WHPel WHPpa ///
>     emplw25 emplw33 deaw2 shhlw2 shfincw2 suprtw3 ///
>     medcow3 illw3 crhtw1-crhtw3 ///
>     icdx1nr12 icdx5nr4 icdx6nr3 icdx6nr11 icdx6nr12 icdx6nr15 ///
>     icdx7nr26 if gender==2, vce(cluster id)
note: icdx6nr15 omitted because of collinearity

```

Linear regression

Number of obs =	360
<u>F(19, 359)</u> =	.
Prob > F =	.
R-squared =	0.5403
Root MSE =	13.137

(Std. Err. adjusted for **360** clusters in id)

WHPsociso	Robust					
	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
age	.024209	.0676914	0.36	0.721	-.1089126	.1573306
BSIdep	1.750715	.3045235	5.75	0.000	1.151841	2.349589
BSIphanx	-.6495127	.2940894	-2.21	0.028	-1.227867	-.0711582
sepaw2	-2.974313	1.879647	-1.58	0.114	-6.670816	.7221899
WHPel	.1163641	.0279075	4.17	0.000	.0614814	.1712468
WHPpa	.168509	.0576397	2.92	0.004	.0551552	.2818628
emplw25	3.406403	3.911469	0.87	0.384	-4.285868	11.09867
emplw33	-10.7925	2.64895	-4.07	0.000	-16.0019	-5.583087
deaw2	-1.868149	.795226	-2.35	0.019	-3.432036	-.3042626
shhlw2	.0091588	.0191738	0.48	0.633	-.0285483	.0468659
shfincw2	-.043186	.0216453	-2.00	0.047	-.0857536	-.0006185
suprtw3	-.0352258	.0186659	-1.89	0.060	-.0719341	.0014826
medcow3	-.344872	.1474924	-2.34	0.020	-.6349297	-.0548144
illw3	.4139756	.8526396	0.49	0.628	-1.26282	2.090771
crhtw1	2.024705	1.636498	1.24	0.217	-1.193623	5.243032
crhtw2	-1.197136	2.7383	-0.44	0.662	-6.582259	4.187988
crhtw3	.6225015	2.005859	0.31	0.756	-3.322208	4.567211
icdx1nr12	12.4498	11.33264	1.10	0.273	-9.836902	34.73651

icdx5nr4	31.75689	4.967516	6.39	0.000	21.9878	41.52597
icdx6nr3	48.86768	10.07196	4.85	0.000	29.06023	68.67513
icdx6nr11	30.73035	13.16401	2.33	0.020	4.842092	56.61862
icdx6nr12	51.71199	4.958484	10.43	0.000	41.96067	61.46332
icdx6nr15	0	(omitted)				
icdx7nr26	21.79048	5.815167	3.75	0.000	10.35441	33.22655
_cons	-6.276913	3.861783	-1.63	0.105	-13.87147	1.317646

```

92 .
93 .
94 . // Trimmed female social isolation crhtw model
95 . des icdx1nr12 icdx5nr4 icdx6nr3 icdx6nr11 icdx6nr12 icdx7nr26

```

variable	storage	display	value	
name	type	format	label	variable label
icdx1nr12	double	%8.0g		icdx1nr==531 gastric ulcer
icdx5nr4	double	%8.0g		icdx5nr==rheum fev w/o hrt
				involv
icdx6nr3	double	%8.0g		icdx6nr==290.12 presenile
				delusion
icdx6nr11	double	%8.0g		icdx6nr==regional enteritis
icdx6nr12	double	%8.0g		icdx6nr==575.1 cholecystitis
icdx7nr26	double	%8.0g		icdx7nr==intervertebral disc
				dis*

```

96 . cap drop H8FemSIpred
97 . cap drop h8sepred
98 . cap drop rsires
99 . cap drop upb
100 . cap drop lpb

```

```

101 . regress WHPsociso age BSIdep BSIphanx sepaw2 WHPel WHPpa ///
>     emplw25 emplw33 deaw2 shhlw2 shfincw2 suprtw3 ///
>     medcow3 illlw3 crhtw1-crhtw3 ///
>     icdx1nr12 icdx5nr4 icdx6nr3 icdx6nr11 icdx6nr12 ///
>     icdx7nr26 if gender==2, vce(cluster id)

```

Linear regression

Number of obs =	360
F(19, 359) =	.
Prob > F =	.
R-squared =	0.5403
Root MSE =	13.137

(Std. Err. adjusted for 360 clusters in id)

WHPsociso	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]
age	.024209	.0676914	0.36	0.721	-.1089126 .1573306
BSIdep	1.750715	.3045235	5.75	0.000	1.151841 2.349589
BSIphanx	-.6495127	.2940894	-2.21	0.028	-1.227867 -.0711582
sepaw2	-2.974313	1.879647	-1.58	0.114	-6.670816 .7221899
WHPel	.1163641	.0279075	4.17	0.000	.0614814 .1712468
WHPpa	.168509	.0576397	2.92	0.004	.0551552 .2818628
emplw25	3.406403	3.911469	0.87	0.384	-4.285868 11.09867
emplw33	-10.7925	2.64895	-4.07	0.000	-16.0019 -5.583087
deaw2	-1.868149	.795226	-2.35	0.019	-3.432036 -.3042626
shhlw2	.0091588	.0191738	0.48	0.633	-.0285483 .0468659
shfincw2	-.043186	.0216453	-2.00	0.047	-.0857536 -.0006185
suprtw3	-.0352258	.0186659	-1.89	0.060	-.0719341 .0014826
medcow3	-.344872	.1474924	-2.34	0.020	-.6349297 -.0548144
illlw3	.4139756	.8526396	0.49	0.628	-1.26282 2.090771
crhtw1	2.024705	1.636498	1.24	0.217	-1.193623 5.243032
crhtw2	-1.197136	2.7383	-0.44	0.662	-6.582259 4.187988
crhtw3	.6225015	2.005859	0.31	0.756	-3.322208 4.567211
icdx1nr12	12.4498	11.33264	1.10	0.273	-9.836902 34.73651
icdx5nr4	31.75689	4.967516	6.39	0.000	21.9878 41.52597
icdx6nr3	48.86768	10.07196	4.85	0.000	29.06023 68.67513
icdx6nr11	30.73035	13.16401	2.33	0.020	4.842092 56.61862
icdx6nr12	51.71199	4.958484	10.43	0.000	41.96067 61.46332
icdx7nr26	21.79048	5.815167	3.75	0.000	10.35441 33.22655
_cons	-6.276913	3.861783	-1.63	0.105	-13.87147 1.317646

```

102 .      di e(r2_a)
.5088808

103 . *-- No threat social isolation relationship for women
104 . predict H8FemSIpred if gender==2, xb
(342 missing values generated)

105 . predict h8sepred if gender==2, stdp
(343 missing values generated)

106 . predict rsires if gender==2, residual
(342 missing values generated)

107 . gen upb = H8FemSIpred + 1.96*h8sepred
(343 missing values generated)

108 . gen lpb = H8FemSIpred - 1.96*h8sepred
(343 missing values generated)

109 .
110 . scatter H8FemSIpred rsires || lowess H8FemSIpred rsires ///
>    || lowess upb rsires || lowess lpb rsires, ///
>    title(Prediction interval of Female social isolation model)    ///
>    ytitle(Predicted Female Social Isolation)

111 .
112 . gr save FemSocIsoPredInt.gph, replace
(file FemSocIsoPredInt.gph saved)

113 . gr export FemSocIsoPredInt.eps, replace
(file FemSocIsoPredInt.eps written in EPS format)

114 . gr use FemsocIsoPredInt.gph

115 .
116 . // No significant main effects for risk perception vs. female social isolati
> on

```

Endogenous variables

Observed: **age whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3443.4948**
Iteration 1: log likelihood = **-3443.4948**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3443.4948**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	age <-						
>	23	crhtwl	3.218873	.6364183	5.06	0.000	1.971516 4.466
>	72	_cons	49.84232	.6063362	82.20	0.000	48.65393 51.030
>	—						
	whpsociso <-						
>	79	age	.5037277	.079073	6.37	0.000	.3487474 .65870
>	65	_cons	-15.0135	4.083459	-3.68	0.000	-23.01693 -7.0100
>	—						
	Variance						
	e.age	130.49	9.699243			112.7997	150.95
>	46	e.whpsociso	316.2253	23.50484			273.3552 365.81
>	87						
>	—						
	LR test of model vs. saturated: chi2(1) =				3.30,	Prob > chi2 =	0.0693

Endogenous variables

Observed: age whpsociso

Exogenous variables

Observed: crhtw2

Fitting target model:

Iteration 0: log likelihood = **-3420.9216**
Iteration 1: log likelihood = **-3420.9216**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3420.9216**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	age <-						
>	crhtw2	3.897443	.6851925	5.69	0.000	2.554491	5.2403
>	_cons	49.54513	.6075589	81.55	0.000	48.35434	50.735
>	93						
>	—						
>	whpsociso <-						
>	age	.5037666	.0786461	6.41	0.000	.3496232	.65791
>	_cons	-15.01573	4.057702	-3.70	0.000	-22.96868	-7.0627
>	75						
>	—						
	Variance						
>	e.age	128.9608	9.57237			111.5002	149.15
>	e.whpsociso	315.3542	23.40778			272.6569	364.73
>	77						
>	—						
	LR test of model vs. saturated: chi2(1) =				9.45 ,	Prob > chi2 = 0.0021	

Endogenous variables

Observed: age whpsociso

Exogenous variables

Observed: crhtw3

Fitting target model:

Iteration 0: log likelihood = **-3430.4987**
Iteration 1: log likelihood = **-3430.4987**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3430.4987**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	age <-						
>	crhtw3	3.646918	.6723377	5.42	0.000	2.32916	4.9646
>	75						
	_cons	49.58731	.6093473	81.38	0.000	48.39301	50.781
>	61						
>	—						
	whpsociso <-						
>	age	.5037666	.0786461	6.41	0.000	.3496232	.65791
>	01						
	_cons	-15.01573	4.057702	-3.70	0.000	-22.96868	-7.0627
>	75						
>	—						
	Variance						
	e.age	129.9244	9.643895			112.3333	150.27
>	02						
	e.whpsociso	315.3542	23.40778			272.6569	364.73
>	77						
>	—						
	LR test of model vs. saturated: chi2(1) = 11.80 , Prob > chi2 = 0.0006						
	(1 observations with missing values excluded;						
	specify option 'method(mlmv)' to use all observations)						

Endogenous variables

Observed: **BSIdep whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3002.9885**
Iteration 1: log likelihood = **-3002.9885**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3002.9885**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	BSIdep <-						
>	crhtwl	.3880135	.2084177	1.86	0.063	-.0204776	.79650
>	47						
>	_cons	9.614106	.1985662	48.42	0.000	9.224923	10.003
>	29						
>	—						
	whpsociso <-						
	BSIdep	2.56645	.2248657	11.41	0.000	2.125721	3.0071
>	79						
>	_cons	-14.4974	2.332057	-6.22	0.000	-19.06815	-9.9266
>	51						
>	—						
	Variance						
	e.BSIdep	13.99461	1.040211			12.09739	16.189
>	38						
>	e.whpsociso	258.6155	19.22274			223.5554	299.1
>	74						
>	—						
	LR test of model vs. saturated: chi2(1) =				7.08,	Prob > chi2 = 0.0078	

Endogenous variables

Observed: **BSIdep whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2967.9013**
Iteration 1: log likelihood = **-2967.9013**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2967.9013**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	BSIdep <-						
>	crhtw2	1.222397	.2175138	5.62	0.000	.7960774	1.6487
>	16						
	_cons	9.445589	.192869	48.97	0.000	9.067572	9.8236
>	05						
>	—						
	whpsociso <-						
>	BSIdep	2.567092	.2242632	11.45	0.000	2.127545	3.006
>	64						
	_cons	-14.50609	2.323675	-6.24	0.000	-19.0604	-9.9517
>	65						
>	—						
Variance							
	e.BSIdep	12.99589	.9646457			11.23632	15.031
>	01						
	e.whpsociso	257.9052	19.14352			222.9862	298.29
>	25						
>	—						
LR test of model vs. saturated: chi2(1) =				4.48	, Prob > chi2 = 0.0343		

Endogenous variables

Observed: **BSIdep whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2971.3925**
Iteration 1: log likelihood = **-2971.3925**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2971.3925**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	BSIdep <-						
>	64 crhtw3	1.360398	.2098845	6.48	0.000	.9490322	1.7717
>	64 _cons	9.421549	.1902207	49.53	0.000	9.048723	9.7943
>	75						
>	—						
whpsociso <-							
	BSIdep	2.567092	.2242632	11.45	0.000	2.127545	3.006
>	64 _cons	-14.50609	2.323675	-6.24	0.000	-19.0604	-9.9517
>	65						
>	—						
Variance							
	e.BSIdep	12.66125	.9398062			10.94698	14.643
>	97 e.whpsociso	257.9052	19.14352			222.9862	298.29
>	25						
>	—						
LR test of model vs. saturated: chi2(1) = 3.95 , Prob > chi2 = 0.0469							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-2996.6209**

Iteration 1: log likelihood = **-2996.6209**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-2996.6209**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	BSIphanx <-						
>	crhtwl	-.0345343	.1807946	-0.19	0.849	-.3888852	.31981
>	65						
>	_cons	7.714541	.1722488	44.79	0.000	7.376939	8.0521
>	42						
>	—						
>	whpsociso <-						
>	BSIphanx	1.37381	.2950052	4.66	0.000	.7956104	1.952
>	01						
>	_cons	-.2827456	2.467753	-0.11	0.909	-5.119452	4.5539
>	61						
>	—						
	Variance						
>	e.BSIphanx	10.53083	.7827503			9.103182	12.182
>	37						
>	e.whpsociso	331.7984	24.66238			286.8171	383.83
>	42						
>	—						
	LR test of model vs. saturated: chi2(1) = 11.43 , Prob > chi2 = 0.0007						

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2967.0793**
Iteration 1: log likelihood = **-2967.0793**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2967.0793**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	BSIphanx <- crhtw2	.7650516	.1915655	3.99	0.000	.3895902	1.1405	
>	13	_cons	7.571012	.1698607	44.57	0.000	7.238091	7.9039
>	33							
>	—							
	whpsociso <- BSIphanx	1.37847	.294369	4.68	0.000	.8015172	1.9554	
>	22	_cons	-.3367808	2.460249	-0.14	0.891	-5.15878	4.4852
>	19							
>	—							
	Variance							
>	e.BSIphanx	10.08015	.7482189			8.715351	11.658	
>	67	e.whpsociso	331.0033	24.56937		286.1872	382.83	
>	75							
>	—							
	LR test of model vs. saturated: chi2(1) = 14.46 , Prob > chi2 = 0.0001							

Endogenous variables

Observed: **BSIphanx whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2972.2093**
Iteration 1: log likelihood = **-2972.2093**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2972.2093**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	BSIphanx <- crhtw3	.8801626	.1856828	4.74	0.000	.516231	1.2440	
>	94	_cons	7.55102	.1682864	44.87	0.000	7.221185	7.8808
>	56							
>	—							
	whpsociso <- BSIphanx	1.37847	.294369	4.68	0.000	.8015172	1.9554	
>	22	_cons	-.3367808	2.460249	-0.14	0.891	-5.15878	4.4852
>	19							
>	—							
	Variance							
>	e.BSIphanx	9.909664	.7355643			8.567948	11.461	
>	49	e.whpsociso	331.0033	24.56937		286.1872	382.83	
>	75							
>	—							
	LR test of model vs. saturated: chi2(1) = 15.49 , Prob > chi2 = 0.0001							
	(1 observations with missing values excluded;							
	specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **sepaw2 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1885.1748**

Iteration 1: log likelihood = **-1885.1748**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1885.1748**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	84	sepaw2 <- crhtwl	.0142735	.0081557	1.75	0.080	-.0017115 .03025
>	92	_cons	.0201998	.0077702	2.60	0.009	.0049705 .03542
>	—						
>	18	whpsociso <- sepaw2	-4.915381	6.699714	-0.73	0.463	-18.04658 8.2158
>	95	_cons	10.41788	.9959717	10.46	0.000	8.465813 12.369
>	—						
	Variance						
>	06	e.sepaw2	.0214297	.0015929			.0185245 .02479
>	49	e.whpsociso	351.1537	26.10105			303.5484 406.22
>	—						
	LR test of model vs. saturated: chi2(1) = 11.03 , Prob > chi2 = 0.0009						

Endogenous variables

Observed: **sepaw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1861.3544**
Iteration 1: log likelihood = **-1861.3544**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1861.3544**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
sepaw2 <-	crhtw2	.0065809	.0088513	0.74	0.457	-.0107673	.02392
> 91							
_cons		.0209077	.0078484	2.66	0.008	.0055251	.03629
> 03							
>	—						
whpsociso <-							
sepaw2		-4.886035	6.693119	-0.73	0.465	-18.00431	8.2322
> 37							
_cons		10.38854	.9936198	10.46	0.000	8.441076	12.335
> 99							
>	—						
Variance							
e.sepaw2		.0215201	.0015974			.0186064	.02489
> 01							
e.whpsociso		350.4845	26.0154			303.0307	405.36
> 93							
>	—						
LR test of model vs. saturated: chi2(1) = 21.28 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **sepaw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1869.3798**
Iteration 1: log likelihood = **-1869.3798**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1869.3798**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	sepaw2 <- crhtw3	.0084506	.0086482	0.98	0.328	-.0084995	.02540
>	07						
>	_cons	.0205844	.0078379	2.63	0.009	.0052223	.03594
>	64						
>	—						
	whpsociso <- sepaw2	-4.886035	6.693119	-0.73	0.465	-18.00431	8.2322
>	37						
>	_cons	10.38854	.9936198	10.46	0.000	8.441076	12.335
>	99						
>	—						
	Variance						
>	e.sepaw2	.0214963	.0015956			.0185858	.02486
>	26						
>	e.whpsociso	350.4845	26.0154			303.0307	405.36
>	93						
>	—						
	LR test of model vs. saturated: chi2(1) = 23.96 , Prob > chi2 = 0.0000						
	(1 observations with missing values excluded;						
	specify option 'method(mlmv)' to use all observations)						

Endogenous variables

Observed: **WHPel whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3811.0355**

Iteration 1: log likelihood = **-3811.0355**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3811.0355**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	43	WHPel <- crhtwl	3.589837	1.907334	1.88	0.060	-.1484685	7.3281
>	87	_cons	31.4471	1.817179	17.31	0.000	27.88549	35.00
>	—							
>	68	whpsociso <- WHPel	.2655266	.0250216	10.61	0.000	.2164853	.3145
>	15	_cons	1.832353	1.174339	1.56	0.119	-.4693083	4.1340
>	—							
	Variance							
>	59	e.WHPel	1172.048	87.11763			1013.155	1355.8
>	95	e.whpsociso	268.2327	19.93758			231.8689	310.29
>	—							
	LR test of model vs. saturated: chi2(1) =					7.08 , Prob > chi2 = 0.0078		

Endogenous variables

Observed: **WHPel whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3784.2208**
Iteration 1: log likelihood = **-3784.2208**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3784.2208**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> 1]							
> —							
Structural							
WHPel <-							
crhtw2		8.743494	2.023951	4.32	0.000	4.776623	12.710
> 37							
_cons		30.33442	1.794634	16.90	0.000	26.817	33.851
> 84							
> —							
whpsociso <-							
WHPel		.2656625	.0249579	10.64	0.000	.2167459	.31457
> 91							
_cons		1.822981	1.169737	1.56	0.119	-.4696618	4.1156
> 23							
> —							
Variance							
e.WHPel		1125.208	83.52074			972.8604	1301.4
> 12							
e.whpsociso		267.503	19.85593			231.2845	309.39
> 32							
> —							
LR test of model vs. saturated: chi2(1) = 8.42 , Prob > chi2 = 0.0037							

Endogenous variables

Observed: **WHPel whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3789.8077**
Iteration 1: log likelihood = **-3789.8077**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3789.8077**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> 1]							
> —							
Structural							
WHPel <-							
crhtw3		9.673408	1.964269	4.92	0.000	5.82351	13.523
> 31							
_cons		30.17231	1.78024	16.95	0.000	26.6831	33.661
> 51							
> —							
whpsociso <-							
WHPel		.2656625	.0249579	10.64	0.000	.2167459	.31457
> 91							
_cons		1.822981	1.169737	1.56	0.119	-.4696618	4.1156
> 23							
> —							
Variance							
e.WHPel		1108.965	82.31511			958.8171	1282.6
> 26							
e.whpsociso		267.503	19.85593			231.2845	309.39
> 32							
> —							
LR test of model vs. saturated: chi2(1) = 8.45 , Prob > chi2 = 0.0037							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **WHPpa whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3634.2125**

Iteration 1: log likelihood = **-3634.2125**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3634.2125**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	77	WHPpa <- crhtwl	4.525226	1.168772	3.87	0.000	2.234476	6.8159
>	73	_cons	17.91426	1.113527	16.09	0.000	15.73179	20.096
>	—							
>	17	whpsociso <- WHPpa	.4249085	.0402602	10.55	0.000	.3459999	.5038
>	53	_cons	2.441428	1.139574	2.14	0.032	.2079032	4.6749
>	—							
	Variance							
>	05	e.WHPpa	440.0999	32.71237			380.4363	509.12
>	22	e.whpsociso	268.9266	19.98916			232.4687	311.10
>	—							
	LR test of model vs. saturated: chi2(1) =				2.57	, Prob > chi2 =	0.1086	

Endogenous variables

Observed: **WHPpa whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3606.6295**
Iteration 1: log likelihood = **-3606.6295**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3606.6295**

		OIM						
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva		
>	—							
>	1]							
>	—							
	Structural							
>	15	WHPpa <- crhtw2	6.912245	1.23926	5.58	0.000	4.48334	9.341
>	14	_cons	17.2777	1.098849	15.72	0.000	15.12399	19.43
>	—							
>	08	whpsociso <- WHPpa	.4251797	.0401646	10.59	0.000	.3464585	.50390
>	43	_cons	2.429695	1.1353	2.14	0.032	.204547	4.6548
>	—							
	Variance							
>	98	e.WHPpa	421.8494	31.3126			364.7332	487.90
>	18	e.whpsociso	268.2021	19.90783			231.889	310.20
>	—							
	LR test of model vs. saturated: chi2(1) = 5.23 , Prob > chi2 = 0.0222							

Endogenous variables

Observed: **WHPpa whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3614.5027**
Iteration 1: log likelihood = **-3614.5027**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3614.5027**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	WHPpa <-						
>	crhtw3	6.833494	1.210316	5.65	0.000	4.461318	9.2056
>	69						
	_cons	17.2896	1.096923	15.76	0.000	15.13967	19.439
>	53						
>	—						
	whpsociso <-						
>	WHPpa	.4251797	.0401646	10.59	0.000	.3464585	.50390
>	08						
	_cons	2.429695	1.1353	2.14	0.032	.204547	4.6548
>	43						
>	—						
Variance							
	e.WHPpa	421.0302	31.25179			364.0249	486.96
>	23						
	e.whpsociso	268.2021	19.90783			231.889	310.20
>	18						
>	—						
LR test of model vs. saturated: chi2(1) = 6.57 , Prob > chi2 = 0.0104							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **emplw25 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-2076.793**

Iteration 1: log likelihood = **-2076.793**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-2076.793**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	emplw25 <-						
>	crhtwl	.067086	.0144596	4.64	0.000	.0387458	.09542
>	62						
>	_cons	.0684197	.0137761	4.97	0.000	.041419	.09542
>	03						
>	—						
	whpsociso <-						
>	emplw25	20.3846	3.530566	5.77	0.000	13.46482	27.304
>	38						
>	_cons	8.732545	.9819041	8.89	0.000	6.808048	10.657
>	04						
>	—						
	Variance						
>	e.emplw25	.0673599	.0050068			.0582281	.07792
>	39						
>	e.whpsociso	322.0213	23.93565			278.3654	372.52
>	37						
>	—						
	LR test of model vs. saturated: chi2(1) =						4.22, Prob > chi2 = 0.0400

Endogenous variables

Observed: **emplw25 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2052.7216**
Iteration 1: log likelihood = **-2052.7216**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2052.7216**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	emplw25 <-						
>	66 crhtw2	.0710325	.0156606	4.54	0.000	.0403383	.10172
>	51 _cons	.0649287	.0138862	4.68	0.000	.0377122	.09214
>	—						
whpsociso <-							
	emplw25	20.41066	3.526442	5.79	0.000	13.49897	27.322
>	36 _cons	8.706478	.9794053	8.89	0.000	6.786879	10.626
>	08						
>	—						
Variance							
	e.emplw25	.0673671	.0050005			.058246	.07791
>	66 e.whpsociso	321.3436	23.85236			277.8354	371.66
>	51						
>	—						
LR test of model vs. saturated: chi2(1) = 12.23 , Prob > chi2 = 0.0005							

Endogenous variables

Observed: **emplw25 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2062.0248**
Iteration 1: log likelihood = **-2062.0248**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2062.0248**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	86	emplw25 <- crhtw3	.065693	.0153552	4.28	0.000	.0355974 .09578
>	65	_cons	.0658305	.0139166	4.73	0.000	.0385545 .09310
>	—						
>	36	whpsociso <- emplw25	20.41066	3.526442	5.79	0.000	13.49897 27.322
>	08	_cons	8.706478	.9794053	8.89	0.000	6.786879 10.626
>	—						
	Variance						
>	05	e.emplw25	.0677682	.0050302			.0585927 .07838
>	51	e.whpsociso	321.3436	23.85236			277.8354 371.66
>	—						
	LR test of model vs. saturated: chi2(1) = 14.80 , Prob > chi2 = 0.0001						
	(1 observations with missing values excluded;						
	specify option 'method(mlmv)' to use all observations)						

Endogenous variables

Observed: **emplw33 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1513.8832**

Iteration 1: log likelihood = **-1513.8832**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1513.8832**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	emplw33 <- crhtwl	.0013025	.0029233	0.45	0.656	-.0044271	.00703
>	22						
>	_cons	.0025891	.0027852	0.93	0.353	-.0028697	.00804
>	79						
>	—						
	whpsociso <- emplw33	-10.33781	18.77112	-0.55	0.582	-47.12852	26.45
>	29						
>	_cons	10.33781	.986588	10.48	0.000	8.404135	12.271
>	49						
>	—						
	Variance						
>	e.emplw33	.0027533	.0002047			.00238	.00318
>	51						
>	e.whpsociso	351.3814	26.11798			303.7453	406.48
>	84						
>	—						
	LR test of model vs. saturated: chi2(1) = 10.57 , Prob > chi2 = 0.0011						

Endogenous variables

Observed: **emplw33 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1487.7885**
Iteration 1: log likelihood = **-1487.7885**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1487.7885**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	emplw33 <-						
>	09 crhtw2	-.0012861	.0031618	-0.41	0.684	-.0074831	.00491
>	07 _cons	.0029758	.0028035	1.06	0.288	-.002519	.00847
>	—						
whpsociso <-							
>	99 emplw33	-10.30925	18.75302	-0.55	0.582	-47.0645	26.445
>	84 _cons	10.30925	.9842784	10.47	0.000	8.380104	12.23
>	—						
Variance							
>	76 e.emplw33	.002746	.0002038			.0023742	.0031
>	68 e.whpsociso	350.707	26.03192			303.2232	405.62
>	—						
LR test of model vs. saturated: chi2(1) = 20.86 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **emplw33 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1496.0139**
Iteration 1: log likelihood = **-1496.0139**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1496.0139**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	emplw33 <-						
>	63 crhtw3	-.0012619	.0030909	-0.41	0.683	-.00732	.00479
>	25 _cons	.002972	.0028014	1.06	0.289	-.0025186	.00846
>	—						
whpsociso <-							
	emplw33	-10.30925	18.75302	-0.55	0.582	-47.0645	26.445
>	99 _cons	10.30925	.9842784	10.47	0.000	8.380104	12.23
>	84						
>	—						
Variance							
	e.emplw33	.002746	.0002038			.0023742	.0031
>	76 e.whpsociso	350.707	26.03192			303.2232	405.62
>	68						
>	—						
LR test of model vs. saturated: chi2(1) = 23.39 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded; specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-2489.046**

Iteration 1: log likelihood = **-2489.046**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-2489.046**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	46	deaw2 <- crhtwl	.0785318	.0432369	1.82	0.069	-.006211 .16327
>	26	_cons	.4066754	.0411932	9.87	0.000	.3259382 .48741
>	—						
>	87	whpsociso <- deaw2	-.8085737	1.263574	-0.64	0.522	-3.285134 1.6679
>	25	_cons	10.64653	1.117223	9.53	0.000	8.456816 12.836
>	—						
	Variance						
>	01	e.deaw2	.6022842	.0447674		.5206336 .69674	
>	93	e.whpsociso	351.2785	26.11032		303.6563 406.36	
>	—						
	LR test of model vs. saturated: chi2(1) = 10.99 , Prob > chi2 = 0.0009						

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-2463.9892**
Iteration 1: log likelihood = **-2463.9892**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2463.9892**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	29	deaw2 <- crhtw2	.1226175	.0465495	2.63	0.008	.0313822 .21385
>	54	_cons	.3949072	.0412753	9.57	0.000	.314009 .47580
>	—						
>	09	whpsociso <- deaw2	-.7884602	1.261895	-0.62	0.532	-3.26173 1.6848
>	63	_cons	10.60884	1.1142	9.52	0.000	8.425044 12.792
>	—						
	Variance						
>	61	e.deaw2	.5951996	.0441799			.5146127 .68840
>	83	e.whpsociso	350.6219	26.0256			303.1496 405.52
>	—						
	LR test of model vs. saturated: chi2(1) = 22.22, Prob > chi2 = 0.0000						

Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2472.8425**
Iteration 1: log likelihood = **-2472.8425**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-2472.8425**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
deaw2 <-	crhtw3	.1084722	.0455852	2.38	0.017	.0191269	.19781
>	76						
_cons		.397312	.0413144	9.62	0.000	.3163373	.47828
>	67						
>	—						
whpsociso <-							
deaw2		-.7884602	1.261895	-0.62	0.532	-3.26173	1.6848
>	09						
_cons		10.60884	1.1142	9.52	0.000	8.425044	12.792
>	63						
>	—						
Variance							
e.deaw2		.5972603	.0443328			.5163944	.69078
>	95						
e.whpsociso		350.6219	26.0256			303.1496	405.52
>	83						
>	—						
LR test of model vs. saturated: chi2(1) = 24.69 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded; specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3905.2575**

Iteration 1: log likelihood = **-3905.2575**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3905.2575**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	58	shhlw2 <- crhtwl	.833703	2.182466	0.38	0.702	-3.443852 5.1112
>	36	_cons	50.657	2.079306	24.36	0.000	46.58163 54.732
>	—						
>	64	whpsociso <- shhlw2	.0669977	.024908	2.69	0.007	.0181789 .11581
>	64	_cons	6.90792	1.597334	4.32	0.000	3.777203 10.038
>	—						
	Variance						
>	36	e.shhlw2	1534.571	114.0637			1326.532 1775.2
>	73	e.whpsociso	344.7849	25.62766			298.043 398.85
>	—						
	LR test of model vs. saturated: chi2(1) = 10.33 , Prob > chi2 = 0.0013						

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3883.2758**

Iteration 1: log likelihood = **-3883.2758**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3883.2758**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	shhlw2 <-						
>	56	crhtw2	6.053722	2.344859	2.58	0.010	1.457883 10.649
		_cons	49.58782	2.079182	23.85	0.000	45.5127 53.662
>	94						
>	—						
	whpsociso <-						
>	24	shhlw2	.0676241	.0248211	2.72	0.006	.0189757 .11627
		_cons	6.857176	1.589564	4.31	0.000	3.741687 9.9726
>	64						
>	—						
Variance							
	e.shhlw2	1510.309	112.1057			1305.822	1746.
>	82	e.whpsociso	343.9655	25.53152		297.3944	397.82
>	96						
>	—						
LR test of model vs. saturated: chi2(1) = 18.34 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **shhlw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3891.7245**
Iteration 1: log likelihood = **-3891.7245**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3891.7245**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	shhlw2 <-						
>	45 crhtw3	5.71683	2.293726	2.49	0.013	1.22121	10.212
>	77 _cons	49.64434	2.07883	23.88	0.000	45.56991	53.718
>	—						
whpsociso <-							
	shhlw2	.0676241	.0248211	2.72	0.006	.0189757	.11627
>	24 _cons	6.857176	1.589564	4.31	0.000	3.741687	9.9726
>	64						
>	—						
Variance							
	e.shhlw2	1512.163	112.2433			1307.425	1748.9
>	64 e.whpsociso	343.9655	25.53152			297.3944	397.82
>	96						
>	—						
LR test of model vs. saturated: chi2(1) = 20.85 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **shfincw2 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3864.6747**

Iteration 1: log likelihood = **-3864.6747**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3864.6747**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	72	shfincw2 <- crhtwl	-1.611879	1.932409	-0.83	0.404	-5.399331 2.1755
>	34	_cons	32.52392	1.841068	17.67	0.000	28.91549 36.132
>	—						
>	01	whpsociso <- shfincw2	-.0135245	.0283804	-0.48	0.634	-.0691492 .04210
>	31	_cons	10.74622	1.345985	7.98	0.000	8.108141 13.384
>	—						
	Variance						
>	43	e.shfincw2	1203.067	89.42327			1039.969 1391.7
>	39	e.whpsociso	351.4554	26.12347			303.8092 406.57
>	—						
	LR test of model vs. saturated: chi2(1) = 10.36 , Prob > chi2 = 0.0013						

Endogenous variables

Observed: **shfincw2 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3842.5189**
Iteration 1: log likelihood = **-3842.5189**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3842.5189**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	68	shfincw2 <- crhtw2	5.38016	2.075297	2.59	0.010	1.312652 9.4476
>	25	_cons	31.29585	1.840162	17.01	0.000	27.6892 34.90
>	—						
>	39	whpsociso <- shfincw2	-.0127329	.0283203	-0.45	0.653	-.0682398 .04277
>	98	_cons	10.69111	1.341284	7.97	0.000	8.062245 13.319
>	—						
	Variance						
>	81	e.shfincw2	1183.023	87.8122			1022.848 1368.2
>	85	e.whpsociso	350.8037	26.03909			303.3067 405.73
>	—						
LR test of model vs. saturated: chi2(1) = 21.95 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **shfincw2 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3848.8019**
Iteration 1: log likelihood = **-3848.8019**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3848.8019**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	08	shfincw2 <- crhtw3	6.600941	2.017968	3.27	0.001	2.645797 10.556
>	08	_cons	31.08449	1.828907	17.00	0.000	27.4999 34.669
>	—						
>	39	whpsociso <- shfincw2	-.0127329	.0283203	-0.45	0.653	-.0682398 .04277
>	98	_cons	10.69111	1.341284	7.97	0.000	8.062245 13.319
>	—						
	Variance						
>	12	e.shfincw2	1170.426	86.8772			1011.957 1353.7
>	85	e.whpsociso	350.8037	26.03909			303.3067 405.73
>	—						
LR test of model vs. saturated: chi2(1) = 25.01 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: suprtw3 whpsociso

Exogenous variables

Observed: crhtwl

Fitting target model:

Iteration 0: log likelihood = **-3932.7021**

Iteration 1: log likelihood = **-3932.7021**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-3932.7021**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	suprtw3 <-						
>	94	crhtwl	-7.08681	2.389083	-2.97	0.003	-11.76933 -2.4042
>	39	_cons	56.3382	2.276156	24.75	0.000	51.87702 60.799
>	—						
	whpsociso <-						
>	15	suprtw3	-.0945543	.02216	-4.27	0.000	-.137987 -.05112
>	53	_cons	15.54709	1.559438	9.97	0.000	12.49065 18.603
>	—						
	Variance						
	e.suprtw3	1838.884	136.6832			1589.59	2127.2
>	75	e.whpsociso	334.8357	24.88814		289.4426	387.34
>	77						
>	—						
	LR test of model vs. saturated: chi2(1) =				7.18,	Prob > chi2 =	0.0074

Endogenous variables

Observed: **suprtw3 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3916.7329**
Iteration 1: log likelihood = **-3916.7329**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3916.7329**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	11	suprtw3 <- crhtw2	-3.557287	2.608413	-1.36	0.173	-8.669683 1.555
>	61	_cons	55.99146	2.312875	24.21	0.000	51.4583 60.524
>	—						
>	76	whpsociso <- suprtw3	-.0944689	.0221396	-4.27	0.000	-.1378618 -.0510
>	11	_cons	15.51256	1.556942	9.96	0.000	12.46101 18.564
>	—						
	Variance						
>	61	e.suprtw3	1868.897	138.7225			1615.858 2161.5
>	75	e.whpsociso	334.2348	24.80924			288.9812 386.5
>	—						
	LR test of model vs. saturated: chi2(1) = 19.24, Prob > chi2 = 0.0000						

Endogenous variables

Observed: **suprtw3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3925.1467**
Iteration 1: log likelihood = **-3925.1467**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-3925.1467**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	66	suprtw3 <- crhtw3	-3.106367	2.551288	-1.22	0.223	-8.106801 1.8940
>	66	_cons	55.91471	2.312261	24.18	0.000	51.38276 60.446
>	—						
>	76	whpsociso <- suprtw3	-.0944689	.0221396	-4.27	0.000	-.1378618 -.0510
>	11	_cons	15.51256	1.556942	9.96	0.000	12.46101 18.564
>	—						
	Variance						
>	99	e.suprtw3	1870.832	138.8662			1617.531 2163.7
>	75	e.whpsociso	334.2348	24.80924			288.9812 386.5
>	—						
LR test of model vs. saturated: chi2(1) = 22.03 , Prob > chi2 = 0.0000	(3 observations with missing values excluded; specify option 'method(mlmv)' to use all observations)						

Endogenous variables

Observed: **medcow3 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-3154.2197**

Iteration 1: log likelihood = **-3154.2197**

Structural equation model Number of obs = **360**
Estimation method = **ml**
Log likelihood = **-3154.2197**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	medcow3 <-						
>	51	crhtwl	.2595489	.2870289	0.90	0.366	-.3030173 .82211
>	74	_cons	3.942064	.2729182	14.44	0.000	3.407154 4.4769
>	—						
	whpsociso <-						
	medcow3	.1408268	.1918866	0.73	0.463	-.2352641 .51691	
>	61	_cons	9.628547	1.246484	7.72	0.000	7.185484 12.071
>	—						
	Variance						
	e.medcow3	26.33678	1.963027			22.75715 30.479	
>	47	e.whpsociso	349.8968	26.07976			302.3396 404.93
>	45						
>	—						
	LR test of model vs. saturated: chi2(1) = 9.46 , Prob > chi2 = 0.0021						
	(2 observations with missing values excluded;						

specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed: **medcow3 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-3132.9857**

Iteration 1: log likelihood = **-3132.9857**

Structural equation model Number of obs = **361**

Estimation method = **ml**

Log likelihood = **-3132.9857**

		OIM				
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva
>	—					
>	1]					
>	—					
	Structural					
	medcow3 <-					
>	32 crhtw2	.2388806	.3105224	0.77	0.442	-.3697321 .84749
>	37 _cons	3.932604	.2747157	14.32	0.000	3.394171 4.4710
>	—					
	whpsociso <-					
>	61 medcow3	.1418551	.1916877	0.74	0.459	-.233846 .51755
>	49 _cons	9.59662	1.243834	7.72	0.000	7.15875 12.034
>	—					
	Variance					
	e.medcow3	26.28302	1.956305			22.71529 30.41
>	11 e.whpsociso	349.2065	25.99224			301.8043 404.05
>	39					
>	—					
	LR test of model vs. saturated: chi2(1) = 19.61, Prob > chi2 = 0.0000					

(2 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed: **medcow3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-3140.5923**
Iteration 1: log likelihood = **-3140.5923**

Structural equation model Number of obs = **361**
Estimation method = **ml**
Log likelihood = **-3140.5923**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	medcow3 <-						
>	23	crhtw3	.4335941	.3028265	1.43	0.152	-.1599349 1.0271
>	29	_cons	3.900059	.2739693	14.24	0.000	3.363089 4.4370
>	—						
	whpsociso <-						
>	61	medcow3	.1418551	.1916877	0.74	0.459	-.233846 .51755
>	49	_cons	9.59662	1.243834	7.72	0.000	7.15875 12.034
>	—						
	Variance						
	e.medcow3	26.17744	1.948447			22.62405	30.288
>	94	e.whpsociso	349.2065	25.99224			301.8043 404.05
>	39						
>	—						

```
LR test of model vs. saturated: chi2(1) = 21.97, Prob > chi2 = 0.0000
(1 observations with missing values excluded;
 specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: illw3 whpsociso

Exogenous variables

Observed: crhtwl

Fitting target model:

```
Iteration 0: log likelihood = -2609.0188
Iteration 1: log likelihood = -2609.0188
```

```
Structural equation model                               Number of obs      =      362
Estimation method  = ml
Log likelihood      = -2609.0188
```

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	illw3 <-						
>	crhtwl	-.3790981	.0616884	-6.15	0.000	-.500005	-.25819
>	11						
>	_cons	.7631609	.0587725	12.99	0.000	.6479689	.87835
>	29						
>	—						
>	whpsociso <-						
>	illw3	3.527742	.8265286	4.27	0.000	1.907776	5.1477
>	08						
>	_cons	7.795007	1.127804	6.91	0.000	5.584552	10.005
>	46						
>	—						
	Variance						
>	e.illw3	1.226022	.0911295			1.059813	1.4182
>	99						
>	e.whpsociso	334.8263	24.88744			289.4345	387.33
>	69						
>	—						

```
> —  
LR test of model vs. saturated: chi2(1) = 24.21, Prob > chi2 = 0.0000
```

Endogenous variables

Observed: illw3 whpsociso

Exogenous variables

Observed: crhtw2

Fitting target model:

Iteration 0: log likelihood = -2602.9497
Iteration 1: log likelihood = -2602.9497

Structural equation model Number of obs = 363
Estimation method = ml
Log likelihood = -2602.9497

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
> 1]							
<hr/>							
> —	Structural						
	illw3 <-						
> 06	crhtw2	.1047588	.0699308	1.50	0.134	-.032303	.24182
> 43	_cons	.6927419	.0620075	11.17	0.000	.5712095	.81427
<hr/>							
> —	whpsociso <-						
> 36	illw3	3.539034	.8251691	4.29	0.000	1.921733	5.1563
> 85	_cons	7.765507	1.124397	6.91	0.000	5.56173	9.9692
<hr/>							
> —	Variance						
> 43	e.illw3	1.343288	.0997082			1.161414	1.5536
> 51	e.whpsociso	334.0706	24.79705			288.8393	386.38
<hr/>							

LR test of model vs. saturated: chi2(1) = **18.99**, Prob > chi2 = **0.0000**

Endogenous variables

Observed: **illw3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-2605.6012**

Iteration 1: log likelihood = **-2605.6012**

Structural equation model Number of obs = **363**

Estimation method = **ml**

Log likelihood = **-2605.6012**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	illw3 <-						
>	01	crhtw3	.2486013	.067322	3.69	0.000	.1166525 .38055
>	51	_cons	.6679643	.0610147	10.95	0.000	.5483776 .7875
>	—						
	whpsociso <-						
>	36	illw3	3.539034	.8251691	4.29	0.000	1.921733 5.1563
>	85	_cons	7.765507	1.124397	6.91	0.000	5.56173 9.9692
>	—						
	Variance						
	e.illw3	1.302658	.0966923			1.126285	1.506
>	65	e.whpsociso	334.0706	24.79705			288.8393 386.38
>	51						
>	—						
	LR test of model vs. saturated: chi2(1) = 17.62 , Prob > chi2 = 0.0000						

(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed: **icdx1nr12 whpsociso**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = **-1859.41**
Iteration 1: log likelihood = **-1859.41**

Structural equation model Number of obs = **362**

Estimation method = **ml**

Log likelihood = **-1859.41**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	icdx1nr12 <-						
>	56 crhtw1	.0075392	.0076618	0.98	0.325	-.0074776	.0225
>	06 _cons	.0183336	.0072996	2.51	0.012	.0040267	.03264
>	—						
>	—						
whpsociso <-							
>	97 icdx1nr12	18.62227	7.090279	2.63	0.009	4.725581	32.518
>	16 _cons	9.949155	.9859573	10.09	0.000	8.016714	11.88
>	—						
Variance							
>	85 e.icdx1nr12	.0189125	.0014058			.0163486	.02187
>	14 e.whpsociso	345.0997	25.65106			298.3151	399.22
>	—						

LR test of model vs. saturated: chi2(1) = **9.82**, Prob > chi2 = **0.0017**

Endogenous variables

Observed: **icdx1nr12 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1834.7247**

Iteration 1: log likelihood = **-1834.7247**

Structural equation model Number of obs = **363**

Estimation method = **ml**

Log likelihood = **-1834.7247**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	62	icdx1nr12 <- crhtw2	-.0013362	.0082973	-0.16	0.872	-.0175985 .01492
>	32	_cons	.0195134	.0073572	2.65	0.008	.0050936 .03393
>	—						
>	86	whpsociso <- icdx1nr12	18.65022	7.083111	2.63	0.008	4.767578 32.532
>	03	_cons	9.921208	.9836028	10.09	0.000	7.993382 11.849
>	—						
	Variance						
>	19	e.icdx1nr12	.0189105	.0014037			.0163501 .02187
>	62	e.whpsociso	344.4209	25.56532			297.7881 398.35
>	—						
LR test of model vs. saturated: chi2(1) = 21.57 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **icdx1nr12 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1842.9576**

Iteration 1: log likelihood = **-1842.9576**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1842.9576**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	42	icdx1nr12 <- crhtw3	.0008959	.0081115	0.11	0.912	-.0150023 .01679
>	84	_cons	.0191296	.0073516	2.60	0.009	.0047208 .03353
>	—						
>	86	whpsociso <- icdx1nr12	18.65022	7.083111	2.63	0.008	4.767578 32.532
>	03	_cons	9.921208	.9836028	10.09	0.000	7.993382 11.849
>	—						
	Variance						
>	27	e.icdx1nr12	.0189112	.0014037			.0163508 .02187
>	62	e.whpsociso	344.4209	25.56532			297.7881 398.35
>	—						
LR test of model vs. saturated: chi2(1) = 23.79 , Prob > chi2 = 0.0000	(1 observations with missing values excluded;						

specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed: **icdx5nr4 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1509.6578**

Iteration 1: log likelihood = **-1509.6578**

Structural equation model		Number of obs = 362				
Estimation method = ml						
Log likelihood = -1509.6578						
<hr/>						
> 1]		OIM				
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva
> 16						
Structural						
icdx5nr4 <-						
crhtwl	-.0038018	.0029173	-1.30	0.193	-.0095196	.0019
> 16						
_cons	.0032684	.0027794	1.18	0.240	-.0021791	.0087
> 16						
> 79						
whpsociso <-						
icdx5nr4	50.33981	18.59166	2.71	0.007	13.90083	86.778
> 79						
_cons	10.17019	.9771559	10.41	0.000	8.255004	12.085
> 38						
> 72						
Variance						
e.icdx5nr4	.0027419	.0002038			.0023702	.0031
> 32						
e.whpsociso	344.6949	25.62097			297.9652	398.75
> 32						
> 1						
LR test of model vs. saturated: chi2(1) = 12.02 , Prob > chi2 = 0.0005						

Endogenous variables

Observed: **icdx5nr4 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1483.7449**

Iteration 1: log likelihood = **-1483.7449**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1483.7449**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	44	icdx5nr4 <- crhtw2	.0035669	.003157	1.13	0.259	-.0026206 .00975
>	83	_cons	.0021419	.0027993	0.77	0.444	-.0033446 .00762
>	—						
>	56	whpsociso <- icdx5nr4	50.3679	18.57363	2.71	0.007	13.96425 86.771
>	28	_cons	10.1421	.9748629	10.40	0.000	8.231403 12.05
>	—						
	Variance						
>	63	e.icdx5nr4	.0027376	.0002032			.0023669 .00316
>	35	e.whpsociso	344.0295	25.53626			297.4497 397.90
>	—						
LR test of model vs. saturated: chi2(1) = 19.93 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **icdx5nr4 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1492.0396**
Iteration 1: log likelihood = **-1492.0396**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1492.0396**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	44	icdx5nr4 <- crhtw3	.003294	.0030868	1.07	0.286	-.0027561 .0093
>	12	_cons	.002188	.0027976	0.78	0.434	-.0032952 .00767
>	—						
>	56	whpsociso <- icdx5nr4	50.3679	18.57363	2.71	0.007	13.96425 86.771
>	28	_cons	10.1421	.9748629	10.40	0.000	8.231403 12.05
>	—						
	Variance						
>	75	e.icdx5nr4	.0027386	.0002033			.0023678 .00316
>	35	e.whpsociso	344.0295	25.53626			297.4497 397.90
>	—						
LR test of model vs. saturated: chi2(1) = 22.51 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **icdx6nr3 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1626.4554**

Iteration 1: log likelihood = **-1626.4554**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1626.4554**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	66	icdx6nr3 <- crhtwl	-.0077281	.0041096	-1.88	0.060	-.0157828 .00032
>	74	_cons	.0065534	.0039154	1.67	0.094	-.0011206 .01422
>	—						
>	88	whpsociso <- icdx6nr3	61.09831	12.90359	4.73	0.000	35.80773 86.388
>	53	_cons	9.971695	.9591163	10.40	0.000	8.091861 11.851
>	—						
	Variance						
>	45	e.icdx6nr3	.0054412	.0004044		.0047035	.00629
>	02	e.whpsociso	331.1655	24.61534		286.2699	383.1
>	—						
LR test of model vs. saturated: chi2(1) = 14.70 , Prob > chi2 = 0.0001							

Endogenous variables

Observed: **icdx6nr3 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1602.3766**
Iteration 1: log likelihood = **-1602.3766**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1602.3766**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	95	icdx6nr3 <- crhtw2	.0012967	.0044658	0.29	0.772	-.007456 .01004
>	78	_cons	.0052868	.0039598	1.34	0.182	-.0024742 .01304
>	—						
>	89	whpsociso <- icdx6nr3	61.12593	12.89103	4.74	0.000	35.85997 86.391
>	49	_cons	9.944072	.9568623	10.39	0.000	8.068657 11.819
>	—						
	Variance						
>	59	e.icdx6nr3	.005478	.0004066			.0047363 .00633
>	58	e.whpsociso	330.5263	24.53397			285.7748 382.28
>	—						
LR test of model vs. saturated: chi2(1) = 21.58 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **icdx6nr3 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1610.2125**
Iteration 1: log likelihood = **-1610.2125**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1610.2125**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	47	icdx6nr3 <- crhtw3	.0040573	.004361	0.93	0.352	-.0044901 .01260
>	81	_cons	.0048115	.0039524	1.22	0.223	-.0029352 .01255
>	—						
>	89	whpsociso <- icdx6nr3	61.12593	12.89103	4.74	0.000	35.85997 86.391
>	49	_cons	9.944072	.9568623	10.39	0.000	8.068657 11.819
>	—						
	Variance						
>	23	e.icdx6nr3	.0054663	.0004057			.0047262 .00632
>	58	e.whpsociso	330.5263	24.53397			285.7748 382.28
>	—						
LR test of model vs. saturated: chi2(1) = 22.67 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **icdx6nr11 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1636.4111**

Iteration 1: log likelihood = **-1636.4111**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1636.4111**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	28	icdx6nr11 <- crhtwl	-.0025967	.0041274	-0.63	0.529	-.0106862 .00549
>	76	_cons	.0058705	.0039323	1.49	0.135	-.0018367 .01357
>	—						
>	74	whpsociso <- icdx6nr11	29.52889	13.20629	2.24	0.025	3.645039 55.412
>	04	_cons	10.14611	.9816158	10.34	0.000	8.22218 12.070
>	—						
	Variance						
>	91	e.icdx6nr11	.0054883	.0004079			.0047443 .00634
>	68	e.whpsociso	346.885	25.78376			299.8584 401.28
>	—						
	LR test of model vs. saturated: chi2(1) = 11.13, Prob > chi2 = 0.0008						

Endogenous variables

Observed: **icdx6nr11 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1610.3643**
Iteration 1: log likelihood = **-1610.3643**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1610.3643**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	58	icdx6nr11 <- crhtw2	-.0043266	.0044605	-0.97	0.332	-.0130691 .00441
>	05	_cons	.0062531	.0039551	1.58	0.114	-.0014987 .0140
>	—						
>	54	whpsociso <- icdx6nr11	29.557	13.19338	2.24	0.025	3.698456 55.415
>	41	_cons	10.11801	.9793042	10.33	0.000	8.198605 12.037
>	—						
	Variance						
>	09	e.icdx6nr11	.0054651	.0004057			.0047252 .00632
>	81	e.whpsociso	346.2122	25.69828			299.3369 400.42
>	—						
	LR test of model vs. saturated: chi2(1) = 22.41, Prob > chi2 = 0.0000						

Endogenous variables

Observed: **icdx6nr11 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1618.6129**
Iteration 1: log likelihood = **-1618.6129**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1618.6129**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	icdx6nr11 <-						
>	02	crhtw3	-.0041268	.0043608	-0.95	0.344	-.0126739 .00442
		_cons	.0062198	.0039523	1.57	0.116	-.0015265 .01396
>	61						
>	—						
	whpsociso <-						
>	54	icdx6nr11	29.557	13.19338	2.24	0.025	3.698456 55.415
		_cons	10.11801	.9793042	10.33	0.000	8.198605 12.037
>	41						
>	—						
Variance							
	e.icdx6nr11	.0054658	.0004057			.0047258	.00632
>	17	e.whpsociso	346.2122	25.69828			299.3369 400.42
>	81						
>	—						
LR test of model vs. saturated: chi2(1) = 25.03 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded; specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **icdx6nr12 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1501.5845**

Iteration 1: log likelihood = **-1501.5845**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1501.5845**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	94	icdx6nr12 <- crhtwl	.0034592	.0029185	1.19	0.236	-.0022609 .00917
>	18	_cons	.002302	.0027805	0.83	0.408	-.0031477 .00775
>	—						
>	01	whpsociso <- icdx6nr12	89.9392	18.17428	4.95	0.000	54.31826 125.56
>	33	_cons	10.0608	.9552191	10.53	0.000	8.188608 11.9
>	—						
	Variance						
>	45	e.icdx6nr12	.0027442	.000204		.0023721	.00317
>	05	e.whpsociso	329.3921	24.48352		284.737	381.05
>	—						
	LR test of model vs. saturated: chi2(1) = 9.22 , Prob > chi2 = 0.0024						

Endogenous variables

Observed: **icdx6nr12 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1475.4483**
Iteration 1: log likelihood = **-1475.4483**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1475.4483**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	23	icdx6nr12 <- crhtw2	.0037258	.0031565	1.18	0.238	-.0024608 .00991
>	02	_cons	.0021146	.0027988	0.76	0.450	-.003371 .00760
>	—						
>	37	whpsociso <- icdx6nr12	89.96699	18.15684	4.95	0.000	54.38023 125.55
>	83	_cons	10.03301	.9529871	10.53	0.000	8.165191 11.900
>	—						
	Variance						
>	53	e.icdx6nr12	.0027367	.0002031			.0023662 .00316
>	61	e.whpsociso	328.7628	24.40306			284.25 380.24
>	—						
	LR test of model vs. saturated: chi2(1) = 19.55, Prob > chi2 = 0.0000						

Endogenous variables

Observed: **icdx6nr12 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1483.7505**
Iteration 1: log likelihood = **-1483.7505**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1483.7505**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
Structural							
	icdx6nr12 <-						
>	66	crhtw3	.0034374	.0030864	1.11	0.265	-.0026118 .00948
>	58	_cons	.0021633	.0027972	0.77	0.439	-.0033191 .00764
>	—						
	whpsociso <-						
>	37	icdx6nr12	89.96699	18.15684	4.95	0.000	54.38023 125.55
>	83	_cons	10.03301	.9529871	10.53	0.000	8.165191 11.900
>	—						
Variance							
	e.icdx6nr12	.0027379	.0002032			.0023672	.00316
>	66	e.whpsociso	328.7628	24.40306			284.25 380.24
>	61						
>	—						
LR test of model vs. saturated: chi2(1) = 22.25 , Prob > chi2 = 0.0000							
(1 observations with missing values excluded;							
specify option 'method(mlmv)' to use all observations)							

Endogenous variables

Observed: **icdx7nr26 whpsociso**

Exogenous variables

Observed: **crhtwl**

Fitting target model:

Iteration 0: log likelihood = **-1509.7057**

Iteration 1: log likelihood = **-1509.7057**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-1509.7057**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
	icdx7nr26 <-						
>	crhtwl	-.0033391	.0029189	-1.14	0.253	-.00906	.00238
>	18						
	_cons	.0032068	.0027809	1.15	0.249	-.0022437	.00865
>	73						
>	—						
	whpsociso <-						
	icdx7nr26	51.33255	18.58416	2.76	0.006	14.90827	87.756
>	83						
	_cons	10.16745	.9767617	10.41	0.000	8.253034	12.081
>	87						
>	—						
	Variance						
	e.icdx7nr26	.0027449	.000204			.0023728	.00317
>	54						
	e.whpsociso	344.4169	25.6003			297.7249	398.43
>	16						
>	—						
	LR test of model vs. saturated: chi2(1) = 11.88 , Prob > chi2 = 0.0006						

Endogenous variables

Observed: **icdx7nr26 whpsociso**

Exogenous variables

Observed: **crhtw2**

Fitting target model:

Iteration 0: log likelihood = **-1483.5404**
Iteration 1: log likelihood = **-1483.5404**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1483.5404**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	23	icdx7nr26 <- crhtw2	.0037258	.0031565	1.18	0.238	-.0024608 .00991
>	02	_cons	.0021146	.0027988	0.76	0.450	-.003371 .00760
>	—						
>	61	whpsociso <- icdx7nr26	51.36064	18.56614	2.77	0.006	14.97166 87.749
>	29	_cons	10.13936	.9744698	10.41	0.000	8.229439 12.049
>	—						
	Variance						
>	53	e.icdx7nr26	.0027367	.0002031			.0023662 .00316
>	26	e.whpsociso	343.7521	25.51567			297.2099 397.58
>	—						
LR test of model vs. saturated: chi2(1) = 19.86 , Prob > chi2 = 0.0000							

Endogenous variables

Observed: **icdx7nr26 whpsociso**

Exogenous variables

Observed: **crhtw3**

Fitting target model:

Iteration 0: log likelihood = **-1491.8425**
Iteration 1: log likelihood = **-1491.8425**

Structural equation model Number of obs = **363**
Estimation method = **ml**
Log likelihood = **-1491.8425**

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interva	
>	—						
>	1]						
>	—						
	Structural						
>	66	icdx7nr26 <- crhtw3	.0034374	.0030864	1.11	0.265	-.0026118 .00948
>	58	_cons	.0021633	.0027972	0.77	0.439	-.0033191 .00764
>	—						
>	61	whpsociso <- icdx7nr26	51.36064	18.56614	2.77	0.006	14.97166 87.749
>	29	_cons	10.13936	.9744698	10.41	0.000	8.229439 12.049
>	—						
	Variance						
>	66	e.icdx7nr26	.0027379	.0002032			.0023672 .00316
>	26	e.whpsociso	343.7521	25.51567			297.2099 397.58
>	—						
LR test of model vs. saturated: chi2(1) = 22.44 , Prob > chi2 = 0.0000							

```
123 .
124 . * Possible female social isolation indirect effects-----
> ---
125 . *-- Possible indirect effects through
126 . * wave 1 age illw3 suprtw3 emplw25 whpPA whpEL
127 . * wave 2 age illw3 shhlw2 emplw25 whpPA whpEL BSIphanx BSIdep
128 . * wave 3 age illw3 shhlw2 emplw25 whpPA whpEL BSIphanx BSIdep
129 . ****
> ****
130 . *----- Male PA chunk -----
> ---
131 .
```