

```

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
    > BSIglobsi           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
    > BSIdelp             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
> BSIddep          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 . /* candiate 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	Coef.	Robust 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 BSIdip 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	Coef.	Robust 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)
```



```

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

52 .
53 . 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)

54 .
55 . gr save MSocIsoPredInt.gph, replace
      (file MSocIsoPredInt.gph saved)

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

57 . gr use  MsocIsoPredInt.gph

58 .
59 .
60 . // No significant main effects for risk perception and male social isolation
61 .
62 .
63 . title "tests for possible indirect effects for male social isolation model"

*****
> *
*****
> *
*****                                     ****
> *
*****                                     ****
> *
*****tests for possible indirect effects for male social isolation model ****
> *
*****                                     ****
> *
*****                                     ****
> *
*****                                     13 Jul 2012    12:42:25    ****
> *
*****
> *
*****
> *

```

```

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

```

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interva	
> —							
> 1]							
> —							
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							
> —							
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                114.9854    155.3
> 83
    e.whpsociso |      215.5252    16.55439                185.4034    250.54
> 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
> 98					
e.whpsociso	215.5252	16.55439		185.4034	250.54
> 08					

> —
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: **crhtw1**

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 <-
        crhtw1 |      .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
> 29					

> —
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

> —						
	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interva	
> 1]						
> —						
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**

> —						
	Coef.	OIM 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:  BSIddep whpsociso

Exogenous variables

Observed:  crhtw1

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

-----
> —
              OIM
              Coef.   Std. Err.      z    P>|z|     [95% Conf. Interva
> 1]
-----
> —
Structural
  BSIddep <-
    crhtw1 |    .5548862    .1648543     3.37   0.001     .2317777     .87799
> 48
    _cons |    8.199803    .1548364    52.96   0.000     7.89633     8.5032
> 77
-----
> —
  whpsociso <-
    BSIddep |    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.BSIddep |    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: **BSIddep 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

> —

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

> 1]

> —

Structural

BSIddep <-

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 <-

BSIddep

	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.BSIddep

	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

```

```

> —

```

	Coef.	OIM 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: crhtw1
```

```
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
```

```
> —
```

	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interva	
> 1]						
> —						
Structural						
BSIphanx <-						
crhtw1	.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]							
> —							
Structural							
BSIphanx <-							
crhtw2		.5634246	.1206504	4.67	0.000	.3269542	.7998
> 95							
_cons		6.466506	.1132468	57.10	0.000	6.244546	6.6884
> 66							
> —							
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		4.180539	.3211053			3.596267	4.8597
> 36							
e.whpsociso		171.7912	13.19521			147.7817	199.70
> 15							
> —							

Endogenous variables

Observed: **emplw32 whpsociso**

Exogenous variables

Observed: **crhtw1**

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**

```
> —
      Coef.      OIM      Std. Err.      z      P>|z|      [95% Conf. Interva
> 1]
-----+-----
> —
Structural
emplw32 <-
    crhtw1      .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
> 54
e.whpsociso      218.4652      16.78021
> 84
-----+-----
> —
LR test of model vs. saturated: chi2(1) = 1.63, Prob > chi2 = 0.2017
```



```

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 type	display format	value 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 BSIddep 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
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
BSIddep	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 name	storage type	display format	value 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 BSIddep BSIPhanx sepaw2 WHPel WHPpa ///
>      emplw25 emplw33 deaw2 shhlw2 shfincw2 suprtw3 ///
>      medcow3 illw3 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
BSIddep	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
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

```

```

117 .
118 .
119 .
120 . title "tests for possible indirect effects for female social isolation model
    > "

*****
> *
*****
> *
*****
> *
*****
> *
*****tests for possible indirect effects for female social isolation model****
> *
*****
> *
*****
> *
*****
13 Jul 2012    12:42:37    ****
> *
*****
> *
*****

121 . set more off

122 . foreach var in age BSIdep BSIphanx sepaw2 WHPel WHPpa ///
    >     emplw25 emplw33 deaw2 shhlw2 shfincw2 suprtw3 ///
    >     medcow3 illw3 ///
    >     icdx1nr12 icdx5nr4 icdx6nr3 icdx6nr11 icdx6nr12 ///
    >     icdx7nr26 {
        2. sem (crhtw1-> `var')(`var'-> whpsociso) if gender==2, nocapslatent iterat
    > e(50)
        3. sem (crhtw2-> `var')(`var'-> whpsociso) if gender==2, nocapslatent iterat
    > e(50)
        4. sem (crhtw3-> `var')(`var'-> whpsociso) if gender==2, nocapslatent iterat
    > e(50)
        5. }
    (1 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

Endogenous variables

```

Observed: **age whpsociso**

Exogenous variables

Observed: **crhtw1**

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 <-							
crhtw1		3.218873	.6364183	5.06	0.000	1.971516	4.466
> 23							
_cons		49.84232	.6063362	82.20	0.000	48.65393	51.030
> 72							
> —							
whpsociso <-							
age		.5037277	.079073	6.37	0.000	.3487474	.65870
> 79							
_cons		-15.0135	4.083459	-3.68	0.000	-23.01693	-7.0100
> 65							
> —							
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
> 96							
_cons		49.54513	.6075589	81.55	0.000	48.35434	50.735
> 93							
> —							
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		128.9608	9.57237			111.5002	149.15
> 57							
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**

```
> —
      Coef.      OIM      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
> 02
    e.whpsociso      315.3542      23.40778
> 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: **emplw25 whpsociso**

Exogenous variables

Observed: **crhtw1**

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**

```
> —
      Coef.      OIM      Std. Err.      z      P>|z|      [95% Conf. Interva
> 1]
-----+-----
> —
Structural
emplw25 <-
  crhtw1      .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
> 39
e.whpsociso      322.0213      23.93565
> 37
-----+-----
> —
LR test of model vs. saturated: chi2(1) = 4.22, Prob > chi2 = 0.0400
```


Endogenous variables

Observed: **deaw2 whpsociso**

Exogenous variables

Observed: **crhtw1**

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**

```
> —
      Coef.      OIM      Std. Err.      z      P>|z|      [95% Conf. Interva
> 1]
-----
> —
Structural
  deaw2 <-
    crhtw1      .0785318      .0432369      1.82      0.069      -.006211      .16327
> 46
    _cons      .4066754      .0411932      9.87      0.000      .3259382      .48741
> 26
-----
> —
  whpsociso <-
    deaw2      -.8085737      1.263574      -0.64      0.522      -3.285134      1.6679
> 87
    _cons      10.64653      1.117223      9.53      0.000      8.456816      12.836
> 25
-----
> —
Variance
    e.deaw2      .6022842      .0447674
> 01
    e.whpsociso      351.2785      26.11032
> 93
-----
> —
LR test of model vs. saturated: chi2(1) = 10.99, Prob > chi2 = 0.0009
```


Endogenous variables

Observed: **shfincw2 whpsociso**

Exogenous variables

Observed: **crhtw1**

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**

```
> —
      Coef.      OIM      Std. Err.      z      P>|z|      [95% Conf. Interva
> 1]
-----+-----
> —
Structural
  shfincw2 <-
    crhtw1      -1.611879      1.932409      -0.83      0.404      -5.399331      2.1755
> 72
    _cons      32.52392      1.841068      17.67      0.000      28.91549      36.132
> 34
-----+-----
> —
  whpsociso <-
    shfincw2      -.0135245      .0283804      -0.48      0.634      -.0691492      .04210
> 01
    _cons      10.74622      1.345985      7.98      0.000      8.108141      13.384
> 31
-----+-----
> —
Variance
  e.shfincw2      1203.067      89.42327
> 43
  e.whpsociso      351.4554      26.12347
> 39
-----+-----
> —
LR test of model vs. saturated: chi2(1) = 10.36, Prob > chi2 = 0.0013
```


Endogenous variables

Observed: **medcow3 whpsociso**

Exogenous variables

Observed: **crhtw1**

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**

```
> —
      Coef.      OIM      Std. Err.      z      P>|z|      [95% Conf. Interva
> 1]
-----+-----
> —
Structural
  medcow3 <-
    crhtw1      .2595489      .2870289      0.90      0.366      -.3030173      .82211
> 51
    _cons      3.942064      .2729182      14.44      0.000      3.407154      4.4769
> 74
-----+-----
> —
  whpsociso <-
    medcow3      .1408268      .1918866      0.73      0.463      -.2352641      .51691
> 77
    _cons      9.628547      1.246484      7.72      0.000      7.185484      12.071
> 61
-----+-----
> —
Variance
  e.medcow3      26.33678      1.963027
> 47
  e.whpsociso      349.8968      26.07976
> 45
-----+-----
> —
LR test of model vs. saturated: chi2(1) = 9.46, Prob > chi2 = 0.0021
(2 observations with missing values excluded;
```



```

> —
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]						
> —						
Structural						
illw3 <-						
crhtw2	.1047588	.0699308	1.50	0.134	-.032303	.24182
> 06						
_cons	.6927419	.0620075	11.17	0.000	.5712095	.81427
> 43						
> —						
whpsociso <-						
illw3	3.539034	.8251691	4.29	0.000	1.921733	5.1563
> 36						
_cons	7.765507	1.124397	6.91	0.000	5.56173	9.9692
> 85						
> —						
Variance						
e.illw3	1.343288	.0997082			1.161414	1.5536
> 43						
e.whpsociso	334.0706	24.79705			288.8393	386.38
> 51						
> —						


```

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 BSIdp
128 . * wave 3 age illw3 shhlw2 emplw25 whpPA whpEL BSIPhanx BSIdp
129 . *****
    > *****
130 . *----- Male PA chunk -----
    > -----
131 .

```