```
1 . * Robert A. Yaffee 28 Jul 2012  cluster robust path models for PTSD   versio
  > n 1.0 Stata files
2 .
3 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/sem/PTSDpathmodel
  /Users/robertyaffee/Documents/data/research/chwk/phase3/sem/PTSDpathmodel

4 . use chwide28jul2012, clear
  (Chornobyl sequelae for both sexes   women=362  men = 340 wide format)

5 .
6 .
7 .  // two wave path models for males and females
8 . // male model 1
9 . title "H6: Common perceptions of Chornobyl" "related health risk and PTSD fo
  > r males"


  ********************************************************************************
  > *
  ********************************************************************************
  > *
  *****                                                                      ****
  > *
  *****                                                                      ****
  > *
  *****                 H6: Common perceptions of Chornobyl                  ****
  > *
  *****               related health risk and PTSD for males                 ****
  > *
  *****                                                                      ****
  > *
  *****                                                                      ****
  > *
  *****                                          29 Jul 2012    14:48:39  ****
  > *
  ********************************************************************************
  > *
  ********************************************************************************
  > *
```

```
10 . set more off

11 . sem(age avgcumdosew1 illw1 havmil icdxcnt radchw1->avgcumdosew2) ///
   >    (age avgcumdosew1 airw1 radw1 radchw1 illw1 havmil  ->crhtw1)  ///
   >    (avgcumdosew1 avgcumdosew2 crhtw1 radchw1 radchw2 illw2 radw2 icdxcnt->cr
   > htw2) ///
   >    (age havmil  icdxcnt airw1 radchw1 crhtw1->PTSDw1) ///
   >    (crhtw2 illw2 radw2->PTSDw2)(age PTSDw1 radw2 radchw2 avgcumdosew1 icdxcn
   > t->PTSDw2) ///
   >    (avgcumdosew2 havmil age PTSDw1 PTSDw2 crhtw2 radchw2 radw2 illw1 illw2 -
   > >MiPTSD) ///
   >    if gender==1, nocapslatent  cov(e.crhtw1*e.PTSDw1) nolog
   (8 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

   Endogenous variables

   Observed:  avgcumdosew2 crhtw1 crhtw2 PTSDw1 PTSDw2 MiPTSD

   Exogenous variables

   Observed:  age avgcumdosew1 illw1 havmil icdxcnt radchw1 airw1 radw1 radchw2
              illw2 radw2

   Structural equation model                       Number of obs      =       331
   Estimation method  = ml
   Log likelihood     = -17732.343

   ------------------------------------------------------------------------------
   > ------
                        |
                        |                 OIM
                        |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
   > rval]
   ---------------------+--------------------------------------------------------
   > ------
   Structural           |
     avgcumdosew2 <-    |
                  age   |   .0042741   .0030971     1.38   0.168    -.0017961    .01
   > 03442
        avgcumdosew1    |   1.150662   .0219955    52.31   0.000     1.107552    1.1
   > 93772
                illw1   |   .1267012   .0977114     1.30   0.195    -.0648096    .31
   > 82121
                havmil  |  -.0004914   .0003429    -1.43   0.152    -.0011634    .00
   > 01806
               icdxcnt  |   .0337108   .0229542     1.47   0.142    -.0112785    .07
   > 87002
               radchw1  |   .0022718   .0009887     2.30   0.022      .000334    .00
   > 42097
```

```
            _cons |   .0410652   .1602539     0.26   0.798    -.2730267      .3
> 55157
------------------+------------------------------------------------------------
> ------
  crhtw1 <-       |
              age |   .0162549   .0037448     4.34   0.000     .0089152     .02
> 35945
     avgcumdosew1 |   .0264232   .0166899     1.58   0.113    -.0062883     .05
> 91348
             illw1 |   .0471139   .0587031     0.80   0.422    -.0679421     .16
> 21699
            havmil |  -.0009598     .00042    -2.29   0.022    -.0017831    -.00
> 01365
           radchw1 |  -.0007053   .0012619    -0.56   0.576    -.0031786      .0
> 01768
            airw1 |   .0098957   .0012683     7.80   0.000       .00741     .01
> 23815
            radw1 |   .0030811   .0011504     2.68   0.007     .0008263     .00
> 53359
            _cons |  -1.608145   .2009874    -8.00   0.000    -2.002073    -1.2
> 14217
------------------+------------------------------------------------------------
> ------
  crhtw2 <-       |
     avgcumdosew2 |    .065308   .0352059     1.86   0.064    -.0036943     .13
> 43104
           crhtw1 |   .7972845   .0253508    31.45   0.000     .7475978     .84
> 69712
     avgcumdosew1 |  -.1103735   .0431472    -2.56   0.011    -.1949404    -.02
> 58065
          icdxcnt |   .0598666   .0150157     3.99   0.000     .0304364     .08
> 92969
           radchw1 |  -.0077508   .0008868    -8.74   0.000     -.009489    -.00
> 60127
           radchw2 |   .0088279   .0009278     9.51   0.000     .0070094     .01
> 06463
            illw2 |   .1897646   .0424434     4.47   0.000     .1065771     .27
> 29521
            radw2 |    .002624   .0007346     3.57   0.000     .0011842     .00
> 40638
            _cons |  -.3867569   .0597536    -6.47   0.000    -.5038717    -.2
> 69642
------------------+------------------------------------------------------------
> ------
  PTSDw1 <-       |
           crhtw1 |   88.53432   33.19479     2.67   0.008     23.47373     153
> .5949
              age |  -1.366398    .635724    -2.15   0.032    -2.612394    -.12
> 04018
```

```
            havmil |   .0318959   .0514347     0.62   0.535    -.0689143     .1
> 32706
           icdxcnt |   2.894117   1.166754     2.48   0.013     .6073206    5.1
> 80914
           radchw1 |  -.2361654   .1068714    -2.21   0.027    -.4456294   -.02
> 67013
             airw1 |  -.5533222   .3594229    -1.54   0.124    -1.257778    .15
> 11338
             _cons |   142.6942   53.01585     2.69   0.007     38.78504    246
> .6034
-------------------+----------------------------------------------------------------
> ------
  PTSDw2 <-        |
            crhtw2 |   2.834522   .7464686     3.80   0.000     1.371471    4.2
> 97574
            PTSDw1 |   .0921938   .0167231     5.51   0.000      .059417    .12
> 49706
               age |   .1234019   .0523709     2.36   0.018     .0207569    .22
> 60469
      avgcumdosew1 |  -.6086565   .3591329    -1.69   0.090    -1.312544    .09
> 52311
           icdxcnt |  -1.037163    .393548    -2.64   0.008    -1.808503   -.26
> 58233
           radchw2 |  -.0685893   .0177563    -3.86   0.000    -.1033911   -.03
> 37875
             illw2 |   3.023728   1.059671     2.85   0.004     .9468102    5.1
> 00645
             radw2 |   .0909383   .0189519     4.80   0.000     .0537933    .12
> 80832
             _cons |  -1.499636   2.928032    -0.51   0.609    -7.238475    4.2
> 39202
-------------------+----------------------------------------------------------------
> ------
  MiPTSD <-        |
     avgcumdosew2 |  -.5350549   .2171563    -2.46   0.014    -.9606735   -.10
> 94364
            crhtw2 |   3.015964   .5486406     5.50   0.000     1.940648     4.
> 09128
            PTSDw1 |   .0847532   .0127838     6.63   0.000     .0596974    .10
> 98089
            PTSDw2 |   .1565365   .0398818     3.93   0.000     .0783697    .23
> 47033
               age |   .0880756   .0378223     2.33   0.020     .0139451     .1
> 62206
             illw1 |   3.325304    1.15483     2.88   0.004     1.061879    5.5
> 88729
            havmil |   .0089795   .0040689     2.21   0.027     .0010047    .01
> 69544
           radchw2 |  -.0418445   .0133722    -3.13   0.002    -.0680534   -.01
```

```
> 56355
            illw2 |   3.172976   .7514112     4.22   0.000     1.700237    4.6
> 45715
            radw2 |   .0835874   .0143676     5.82   0.000     .0554274    .11
> 17475
            _cons |   37.53437   2.178869    17.23   0.000     33.26387    41.
> 80488
------------------+------------------------------------------------------------
> ------
Variance          |
   e.avgcumdosew2 |   .4060684   .0315646                      .3486851    .47
> 28953
         e.crhtw1 |   .6150598   .0478353                      .5281004    .71
> 63385
         e.crhtw2 |   .1677849   .0130423                      .1440745    .19
> 53973
         e.PTSDw1 |   4735.537   3191.375                      1263.942    177
> 42.36
         e.PTSDw2 |   105.3381   8.188165                      90.45234    122
> .6737
         e.MiPTSD |   56.61918   4.401134                      48.61808    65.
> 93703
------------------+------------------------------------------------------------
> ------
Covariance        |
  e.crhtw1        |
         e.PTSDw1 |  -47.75493   20.80817    -2.30   0.022     -88.5382   -6.9
> 71659
------------------+------------------------------------------------------------
> ------
LR test of model vs. saturated: chi2(39)  =     50.60, Prob > chi2 = 0.1010

12 .
13 .
14 .
15 . title "Full Male dose CRHTW1 PTSD model"
```

```
*************************************************************************
> *
*************************************************************************
> *
*****                                                                ****
> *
*****                                                                ****
> *
*****                  Full Male dose CRHTW1 PTSD model              ****
> *
*****                                                                ****
> *
*****                                                                ****
> *
*****                                        29 Jul 2012    14:48:40  ****
> *
*************************************************************************
> *
*************************************************************************
> *
```

```
16 . set more off

17 . title4 "non-robust version sem model builder is malecrhtw1PTSD.stsem"
------------------------------------------------------------------------------
non-robust version sem model builder is malecrhtw1PTSD.stsem
------------------------------------------------------------------------------

18 . // Caveat:
19 . // when estimating with model builder be sure to set gender to the gender un
   > der consideration in the dialog box
20 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/P
   > TSDpathmodel/malecrhtw1PTSD.stsem"
21 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/P
   > TSDpathmodel/malecrhtw1PTSD.stsem,"replace
```

```
22 . sem (age -> avgcumdosew2) (age -> crhtw1) (age -> PTSDw1) (age -> PTSDw2) (a
   > ge -> MiPTSD) ///
   >     (avgcumdosew1 -> avgcumdosew2) (avgcumdosew1 -> crhtw1) (avgcumdosew1 ->
   >  crhtw2) ///
   >      (havmil -> crhtw1) (havmil -> MiPTSD) (illw1 -> MiPTSD) (radchw1 -> avg
   > cumdosew2) ///
   >      (radchw1 -> crhtw2) (radchw1 -> radw2) (radchw1 -> PTSDw1) (icdxcnt ->
   > crhtw2) ///
   >      (icdxcnt -> PTSDw1) (icdxcnt -> PTSDw2) (avgcumdosew2 -> radw2) (avgcum
   > dosew2 -> MiPTSD) ///
   >      (crhtw1 -> crhtw2) (crhtw1 -> radw2) (crhtw1 -> PTSDw1) (crhtw1 -> crht
   > w3) ///
   >      (radw1 -> crhtw1) (radw1 -> radw2) (airw1 -> crhtw1) (airw1 -> radw2) /
   > //
   >      (crhtw2 -> radw2) (crhtw2 -> PTSDw2) (crhtw2 -> crhtw3) (radchw2 -> crh
   > tw2) ///
   >      (radchw2 -> PTSDw2) (radchw2 -> MiPTSD) (illw2 -> crhtw2) (illw2 -> PTS
   > Dw2) ///
   >      (illw2 -> MiPTSD) (radw2 -> PTSDw2) (radw2 -> MiPTSD) (PTSDw1 -> PTSDw2
   > ) ///
   >      (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTSD) (crhtw3->MiPTSD) if gender==1, //
   > /
   >      cov( e.crhtw1*e.PTSDw1 e.radw2*e.crhtw2) nocapslatent nolog
   (8 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

   Endogenous variables

   Observed:  avgcumdosew2 crhtw1 PTSDw1 PTSDw2 MiPTSD crhtw2 radw2 crhtw3

   Exogenous variables

   Observed:  age avgcumdosew1 havmil illw1 radchw1 icdxcnt radw1 airw1 radchw2
              illw2

   Structural equation model                       Number of obs      =       331
   Estimation method  = ml
   Log likelihood     = -17736.589
```

```
─────────────────────────┬──────────────────────────────────────────────────────────────
> ──────
                         │                 OIM
                         │      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
> rval]
─────────────────────────┼──────────────────────────────────────────────────────────────
> ──────
Structural               │
  avgcumdosew2 <-        │
                     age │   .0063527   .0029114     2.18   0.029     .0006465     .01
> 20589
            avgcumdosew1 │   1.154167   .0221261    52.16   0.000     1.110801     1.1
> 97534
                 radchw1 │   .0022729   .0009852     2.31   0.021      .000342     .00
> 42038
                   _cons │  -.0158253   .1579911    -0.10   0.920    -.3254822     .29
> 38316
  ───────────────────────┼──────────────────────────────────────────────────────────────
> ──────
  crhtw1 <-              │
                     age │   .0177445    .003762     4.72   0.000      .010371     .02
> 51179
            avgcumdosew1 │   .0486254   .0211549     2.30   0.022     .0071625     .09
> 00883
                  havmil │  -.0010414   .0003301    -3.16   0.002    -.0016883    -.00
> 03945
                   radw1 │   .0043462   .0009382     4.63   0.000     .0025073     .00
> 61851
                   airw1 │   .0083447   .0012732     6.55   0.000     .0058492     .01
> 08401
                   _cons │  -1.684761   .1884843    -8.94   0.000    -2.054184    -1.3
> 15339
  ───────────────────────┼──────────────────────────────────────────────────────────────
> ──────
  PTSDw1 <-              │
                  crhtw1 │   45.02784    6.33542     7.11   0.000     32.61064     57.
> 44503
                     age │  -.7548357   .2581824    -2.92   0.003    -1.260864    -.24
> 88074
                 radchw1 │  -.2645937   .0523976    -5.05   0.000    -.3672911    -.16
> 18964
                 icdxcnt │   2.840656   1.145343     2.48   0.013     .5958243     5.0
> 85488
                   _cons │   76.47156   13.98781     5.47   0.000     49.05596     103
> .8872
  ───────────────────────┼──────────────────────────────────────────────────────────────
> ──────
  PTSDw2 <-              │
                  PTSDw1 │   .0890829   .0166941     5.34   0.000     .0563631     .12
```

```
> 18027
          crhtw2 |   2.834349   .7497004     3.78   0.000     1.364963    4.3
> 03735
           radw2 |    .089949   .0190249     4.73   0.000     .0526609    .12
> 72371
             age |   .1190192   .0525334     2.27   0.023     .0160556    .22
> 19829
          icdxcnt |  -1.015509   .3950435    -2.57   0.010     -1.78978   -.24
> 12381
          radchw2 |  -.0724978   .0176822    -4.10   0.000    -.1071542   -.03
> 78414
           illw2 |   2.902278   1.061823     2.73   0.006     .8211434    4.9
> 83412
           _cons |   -1.23309   2.936464    -0.42   0.675    -6.988454    4.5
> 22274
  ---------------+----------------------------------------------------------------
> -----
  MiPTSD <-      |
     avgcumdosew2 |  -.5238148   .2152592    -2.43   0.015    -.9457151   -.10
> 19145
          PTSDw1 |   .0857138   .0125684     6.82   0.000     .0610803    .11
> 03474
          PTSDw2 |   .1496553   .0396509     3.77   0.000     .0719409    .22
> 73697
           radw2 |    .083648   .0142358     5.88   0.000     .0557465    .11
> 15496
          crhtw3 |   3.252254   .5391711     6.03   0.000     2.195498     4.
> 30901
             age |   .0865524    .037324     2.32   0.020     .0133986    .15
> 97061
          havmil |   .0082117    .004038     2.03   0.042     .0002975     .0
> 16126
           illw1 |   3.322843   1.144796     2.90   0.004     1.079085    5.5
> 66602
          radchw2 |  -.0429887   .0132503    -3.24   0.001    -.0689587   -.01
> 70186
           illw2 |    2.96863   .7478103     3.97   0.000     1.502949    4.4
> 34311
           _cons |   37.84305   2.147691    17.62   0.000     33.63365    42.
> 05244
  ---------------+----------------------------------------------------------------
> -----
  crhtw2 <-      |
          crhtw1 |    .814823   .0255486    31.89   0.000     .7647486    .86
> 48974
     avgcumdosew1 |  -.0316244   .0146466    -2.16   0.031    -.0603311   -.00
> 29176
          radchw1 |  -.0078758   .0008795    -8.95   0.000    -.0095996   -.00
> 61519
```

```
          icdxcnt |   .0599257   .0142637     4.20   0.000     .0319695     .0
> 87882
          radchw2 |   .0094107   .0009021    10.43   0.000     .0076426     .01
> 11788
            illw2 |    .211714   .0397295     5.33   0.000     .1338456     .28
> 95823
            _cons |   -.278569   .0549945    -5.07   0.000    -.3863562    -.17
> 07818
------------------+------------------------------------------------------------
> ------
  radw2 <-        |
    avgcumdosew2 |   1.519426   .6017768     2.52   0.012     .3399651     2.6
> 98887
           crhtw1 |  -26.07633   3.427388    -7.61   0.000    -32.79389    -19.
> 35878
           crhtw2 |   33.60794   3.818069     8.80   0.000     26.12466     41.
> 09121
          radchw1 |  -.1090378   .0354227    -3.08   0.002    -.1784651    -.03
> 96105
            radw1 |   .6706916    .031639    21.20   0.000     .6086804     .73
> 27029
            airw1 |  -.0781947   .0342645    -2.28   0.022    -.1453518    -.01
> 10376
            _cons |    19.2487   3.203868     6.01   0.000     12.96924     25.
> 52817
------------------+------------------------------------------------------------
> ------
  crhtw3 <-       |
           crhtw1 |  -.1193749   .0249263    -4.79   0.000    -.1682295    -.07
> 05203
           crhtw2 |   1.060463   .0251939    42.09   0.000     1.011084     1.1
> 09842
            _cons |  -.0122718    .013649    -0.90   0.369    -.0390233     .01
> 44797
------------------+------------------------------------------------------------
> ------
Variance          |
   e.avgcumdosew2 |   .4135136   .0321433                    .3550782     .48
> 15657
         e.crhtw1 |   .6208406   .0486026                    .5325295     .72
> 37965
         e.PTSDw1 |   1785.945   305.9557                    1276.574     249
> 8.561
         e.PTSDw2 |   106.2522    8.25922                    91.23726     123
> .7382
         e.MiPTSD |   55.66896   4.327271                    47.80214     64.
> 83043
         e.crhtw2 |   .1760537   .0136921                     .151163      .2
> 05043
```

```
          e.radw2 |   461.4498   45.17755                      380.8806    559
> .0622
         e.crhtw3 |   .0594044   .0046176                      .0510097    .06
> 91806
-------------------+------------------------------------------------------------
> ------
Covariance         |
  e.crhtw1
         e.PTSDw1 |  -21.4392   4.574696    -4.69   0.000    -30.40544   -12.
> 47296
  -----------------+------------------------------------------------------------
> ------
  e.crhtw2
          e.radw2 |  -3.592205    .861063    -4.17   0.000    -5.279858   -1.9
> 04553
-------------------+------------------------------------------------------------
> ------
LR test of model vs. saturated: chi2(63)  =     70.55, Prob > chi2 = 0.2400

23 .
24 .
25 . title4 "Full cluster id robust version of male dose PTSD model"
------------------------------------------------------------------------------
Full cluster id robust version of male dose PTSD model
------------------------------------------------------------------------------

26 . set more off

27 . sem (age -> avgcumdosew2) (age -> crhtw1) (age -> PTSDw1) (age -> PTSDw2) (a
> ge -> MiPTSD) ///
>     (avgcumdosew1 -> avgcumdosew2) (avgcumdosew1 -> crhtw1) (avgcumdosew1 ->
>  crhtw2) ///
>      (havmil -> crhtw1) (havmil -> MiPTSD) (illw1 -> MiPTSD) (radchw1 -> avg
> cumdosew2) ///
>      (radchw1 -> crhtw2) (radchw1 -> radw2) (radchw1 -> PTSDw1) (icdxcnt ->
> crhtw2) ///
>      (icdxcnt -> PTSDw1) (icdxcnt -> PTSDw2) (avgcumdosew2 -> radw2) (avgcum
> dosew2 -> MiPTSD) ///
>      (crhtw1 -> crhtw2) (crhtw1 -> radw2) (crhtw1 -> PTSDw1) (crhtw1 -> crht
> w3) ///
>      (radw1 -> crhtw1) (radw1 -> radw2) (airw1 -> crhtw1) (airw1 -> radw2) /
> //
>      (crhtw2 -> radw2) (crhtw2 -> PTSDw2) (crhtw2 -> crhtw3) (radchw2 -> crh
> tw2) ///
>      (radchw2 -> PTSDw2) (radchw2 -> MiPTSD) (illw2 -> crhtw2) (illw2 -> PTS
> Dw2) ///
>      (illw2 -> MiPTSD) (radw2 -> PTSDw2) (radw2 -> MiPTSD) (PTSDw1 -> PTSDw2
> ) ///
>      (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTSD) (crhtw3->MiPTSD) if gender==1, //
```

```
> /
>      cov( e.crhtw1*e.PTSDw1 e.radw2*e.crhtw2) nocapslatent nolog vce(cluster
>  id)
(8 observations with missing values excluded;
 specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed:  avgcumdosew2 crhtw1 PTSDw1 PTSDw2 MiPTSD crhtw2 radw2 crhtw3

Exogenous variables

Observed:  age avgcumdosew1 havmil illw1 radchw1 icdxcnt radw1 airw1 radchw2
           illw2

Structural equation model                       Number of obs      =       331
Estimation method  = ml
Log pseudolikelihood= -17736.589

                                              (Std. Err. adjusted for 331 clusters i
> n id)
-------------------------------------------------------------------------------
> -----
                    |               Robust
                    |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
> rval]
--------------------+----------------------------------------------------------
> -----
Structural          |
  avgcumdosew2 <-   |
              age   |   .0063527   .0028829     2.20   0.028     .0007024    .01
> 20031
     avgcumdosew1   |   1.154167   .0995968    11.59   0.000     .9589612    1.3
> 49373
          radchw1   |   .0022729   .0011612     1.96   0.050    -3.02e-06    .00
> 45488
            _cons   |  -.0158253   .1744506    -0.09   0.928    -.3577422    .32
> 60917
  ------------------+----------------------------------------------------------
> -----
  crhtw1 <-         |
              age   |   .0177445   .0039618     4.48   0.000     .0099794    .02
> 55095
     avgcumdosew1   |   .0486254   .0090614     5.37   0.000     .0308654    .06
> 63855
           havmil   |  -.0010414    .000184    -5.66   0.000    -.0014021   -.00
> 06807
            radw1   |   .0043462   .0009838     4.42   0.000      .002418    .00
> 62744
```

```
             airw1 |   .0083447   .0014572     5.73   0.000     .0054885     .01
> 12008
             _cons |  -1.684761   .1809612    -9.31   0.000    -2.039439   -1.3
> 30084
-------------------+---------------------------------------------------------------
> ------
  PTSDw1 <-        |
           crhtw1 |   45.02784   6.248443     7.21   0.000     32.78111     57.
> 27456
              age |  -.7548357   .2749856    -2.75   0.006    -1.293798   -.21
> 58738
           radchw1 |  -.2645937   .0555005    -4.77   0.000    -.3733728   -.15
> 58147
           icdxcnt |   2.840656   1.144227     2.48   0.013     .5980126    5.0
> 83299
             _cons |   76.47156   15.22062     5.02   0.000      46.6397    106
> .3034
-------------------+---------------------------------------------------------------
> ------
  PTSDw2 <-        |
           PTSDw1 |   .0890829   .0202689     4.40   0.000     .0493565     .12
> 88093
           crhtw2 |   2.834349   .6892835     4.11   0.000     1.483378      4.
> 18532
            radw2 |    .089949    .024487     3.67   0.000     .0419554     .13
> 79425
              age |   .1190192   .0465987     2.55   0.011     .0276875     .21
> 03509
           icdxcnt |  -1.015509   .4825423    -2.10   0.035    -1.961275   -.06
> 97436
           radchw2 |  -.0724978   .0202295    -3.58   0.000    -.1121469   -.03
> 28487
            illw2 |   2.902278   1.143514     2.54   0.011     .6610309    5.1
> 43525
             _cons |  -1.23309   2.354944    -0.52   0.601    -5.848696    3.3
> 82517
-------------------+---------------------------------------------------------------
> ------
  MiPTSD <-        |
     avgcumdosew2 |  -.5238148   .1427369    -3.67   0.000    -.8035739   -.24
> 40556
           PTSDw1 |   .0857138   .0147249     5.82   0.000     .0568536     .11
> 45741
           PTSDw2 |   .1496553   .0532346     2.81   0.005     .0453173     .25
> 39933
            radw2 |    .083648   .0150191     5.57   0.000     .0542112     .11
> 30848
           crhtw3 |   3.252254   .5588656     5.82   0.000     2.156898    4.3
> 47611
```

```
                age |   .0865524    .036575     2.37   0.018     .0148668     .1
> 58238
           havmil |   .0082117   .0054195     1.52   0.130    -.0024103    .01
> 88338
            illw1 |   3.322843    1.23748     2.69   0.007     .8974274    5.7
> 48259
          radchw2 |  -.0429887   .0136569    -3.15   0.002    -.0697557   -.01
> 62217
            illw2 |    2.96863   .7882518     3.77   0.000     1.423685    4.5
> 13575
            _cons |   37.84305   2.057567    18.39   0.000     33.81029     41
> .8758
------------------+------------------------------------------------------------
> ------
  crhtw2 <-       |
           crhtw1 |    .814823   .0263862    30.88   0.000      .763107    .86
> 65389
      avgcumdosew1 |  -.0316244   .0096966    -3.26   0.001    -.0506294   -.01
> 26194
          radchw1 |  -.0078758   .0015021    -5.24   0.000    -.0108199   -.00
> 49316
          icdxcnt |   .0599257    .017026     3.52   0.000     .0265554    .09
> 32961
          radchw2 |   .0094107   .0014968     6.29   0.000     .0064769    .01
> 23444
            illw2 |    .211714   .0447066     4.74   0.000     .1240906    .29
> 93373
            _cons |   -.278569   .0615641    -4.52   0.000    -.3992324   -.15
> 79057
------------------+------------------------------------------------------------
> ------
  radw2 <-        |
     avgcumdosew2 |   1.519426   .3394897     4.48   0.000     .8540384    2.1
> 84813
           crhtw1 |  -26.07633   4.097766    -6.36   0.000    -34.10781   -18.
> 04486
           crhtw2 |   33.60794   4.483277     7.50   0.000     24.82087      4
> 2.395
          radchw1 |  -.1090378   .0333397    -3.27   0.001    -.1743823   -.04
> 36932
            radw1 |   .6706916   .0322082    20.82   0.000     .6075648    .73
> 38185
            airw1 |  -.0781947   .0332206    -2.35   0.019     -.143306   -.01
> 30835
            _cons |    19.2487   3.651072     5.27   0.000     12.09273    26.
> 40467
------------------+------------------------------------------------------------
> ------
  crhtw3 <-       |
```

```
             crhtw1 |  -.1193749   .0386943    -3.09   0.002    -.1952143   -.04
> 35354
             crhtw2 |   1.060463   .0336763    31.49   0.000     .9944586    1.1
> 26467
              _cons |  -.0122718   .0140615    -0.87   0.383    -.0398319    .01
> 52882
--------------------+------------------------------------------------------------
> ------
Variance            |
    e.avgcumdosew2 |   .4135136   .1823225                      .1742553    .98
> 12814
          e.crhtw1 |   .6208406   .0412617                      .5450148    .70
> 72157
          e.PTSDw1 |   1785.945   310.3405                      1270.446    251
> 0.613
          e.PTSDw2 |   106.2522   27.17497                      64.36288    175
> .4044
          e.MiPTSD |   55.66896   4.918433                       46.8175     66
> .1939
          e.crhtw2 |   .1760537   .0247659                      .1336303    .23
> 19453
           e.radw2 |   461.4498   48.16577                       376.077    566
> .2031
          e.crhtw3 |   .0594044   .0181258                      .0326659    .10
> 80294
--------------------+------------------------------------------------------------
> ------
Covariance          |
  e.crhtw1          |
          e.PTSDw1 |  -21.4392   4.881916    -4.39   0.000    -31.00758   -11.
> 87082
  ------------------+------------------------------------------------------------
> ------
  e.crhtw2          |
           e.radw2 |  -3.592205   .9721217    -3.70   0.000    -5.497529   -1.6
> 86882
--------------------+------------------------------------------------------------
> ------
```

```
28 . estat mindices
```

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
avgcumdosew2 <- havmil	**6.361**	**1**	**0.01**	**-.0003918**	**-.0207749**
crhtw1 <- illw2	**3.912**	**1**	**0.05**	**-.1300685**	**-.0830764**
PTSDw1 <- radw1	**5.686**	**1**	**0.02**	**.2123614**	**.2040039**
PTSDw1 <- airw1	**6.770**	**1**	**0.01**	**-.3189926**	**-.2966778**
PTSDw1 <- radchw2	**4.997**	**1**	**0.03**	**-.1585795**	**-.1389838**
PTSDw2 <- crhtw3	**4.297**	**1**	**0.04**	**3.378208**	**.2447901**
crhtw3 <- PTSDw2	**4.855**	**1**	**0.03**	**.001624**	**.0224118**

EPC = expected parameter change

```
29 . estat ic
```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	**331**	.	**-17736.59**	**61**	**35595.18**	**35827.11**

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

```
30 . estat stable

   Stability analysis of simultaneous equation systems

      Eigenvalue stability condition
```

Eigenvalue	Modulus
-.0002162 + .00015792*i*	**.000268**
-.0002162 - .00015792*i*	**.000268**
.00008338 + .00025306*i*	**.000266**
.00008338 - .00025306*i*	**.000266**
.00026564	**.000266**
-5.097e-14 + 3.272e-08*i*	**3.3e-08**
-5.097e-14 - 3.272e-08*i*	**3.3e-08**
4.421e-16	**4.4e-16**

```
      stability index =  .0002677
      All the eigenvalues lie inside the unit circle.
      SEM satisfies stability condition.

31 . estat gof
   Note: model was fit with vce(cluster); only stats(residuals) valid.

32 . estat framework
   (model contains no latent variables)

   Endogenous variables on endogenous variables

                    | observed
>
                Beta | avgcumd~2     crhtw1     PTSDw1     PTSDw2     MiPTSD     c
> rhtw2        radw2     crhtw3
    ----------------+-------------------------------------------------------------
> ----------------------------
    observed        |
>
    avgcumdosew2    |          0          0          0          0          0
>     0           0          0
           crhtw1   |          0          0          0          0          0
>     0           0          0
           PTSDw1   |          0   45.02784          0          0          0
>     0           0          0
           PTSDw2   |          0          0   .0890829          0          0   2.8
> 34349     .089949          0
           MiPTSD   | -.5238148          0   .0857138   .1496553          0
>     0     .083648   3.252254
           crhtw2   |          0    .814823          0          0          0
>     0           0          0
```

```
           radw2 |  1.519426  -26.07633          0          0          0   33.
> 60794          0          0
         crhtw3 |          0  -.1193749          0          0          0   1.0
> 60463          0          0
    ------------+------------------------------------------------------------

> ----------------------------

Exogenous variables on endogenous variables

                | observed
>
           Gamma |        age  avgcumd~1     havmil      illw1    radchw1    ic
> dxcnt      radw1       airw1    radchw2      illw2
    ------------+------------------------------------------------------------
> ----------------------------------------------

    observed    |
>
    avgcumdosew2 |  .0063527   1.154167          0          0   .0022729
>     0          0          0          0          0
         crhtw1 |  .0177445   .0486254  -.0010414          0          0
>     0   .0043462   .0083447          0          0
         PTSDw1 | -.7548357          0          0          0  -.2645937   2.8
> 40656          0          0          0          0
         PTSDw2 |  .1190192          0          0          0          0  -1.0
> 15509          0          0  -.0724978   2.902278
         MiPTSD |  .0865524          0   .0082117   3.322843          0
>     0          0          0  -.0429887    2.96863
         crhtw2 |          0  -.0316244          0          0  -.0078758   .05
> 99257          0          0   .0094107    .211714
          radw2 |          0          0          0          0  -.1090378
>     0   .6706916  -.0781947          0          0
         crhtw3 |          0          0          0          0          0
>     0          0          0          0          0
    ------------+------------------------------------------------------------

> ----------------------------------------------

Covariances of error variables
```

```
                  | observed
>
             Psi  | e.avgcu~2   e.crhtw1   e.PTSDw1   e.PTSDw2   e.MiPTSD   e.c
> rhtw2    e.radw2   e.crhtw3
    -------------+------------------------------------------------------------
> -----------------------------
    observed     |
>
    e.avgcumdo~2 |  .4135136
>
        e.crhtw1 |          0   .6208406
>
        e.PTSDw1 |          0   -21.4392   1785.945
>
        e.PTSDw2 |          0          0          0   106.2522
>
        e.MiPTSD |          0          0          0          0   55.66896
>
        e.crhtw2 |          0          0          0          0          0   .17
> 60537
         e.radw2 |          0          0          0          0          0  -3.5
> 92205   461.4498
        e.crhtw3 |          0          0          0          0          0
>     0          0   .0594044
    -------------+------------------------------------------------------------
> -----------------------------
```

Intercepts of endogenous variables

```
                  | observed
>
           alpha  | avgcumd~2     crhtw1     PTSDw1     PTSDw2     MiPTSD     c
> rhtw2      radw2     crhtw3
    -------------+------------------------------------------------------------
> -----------------------------
           _cons  | -.0158253  -1.684761   76.47156   -1.23309   37.84305   -.2
> 78569    19.2487  -.0122718
    -------------+------------------------------------------------------------
> -----------------------------
```

Covariances of exogenous variables

```
                  | observed
>
             Phi  |        age  avgcumd~1     havmil      illw1    radchw1    ic
> dxcnt       radw1       airw1    radchw2       illw2
    -------------+------------------------------------------------------------
> ---------------------------------------------
    observed     |
>
             age |  148.6516
>
    avgcumdosew1 |  1.580153   2.570909
>
           havmil |  .4736083  -10.13375   10861.89
>
            illw1 |  .4832924   .0291272   2.323722   .1356687
>
          radchw1 | -20.60528  -1.936452  -455.8524  -.1497796   1291.223
>
          icdxcnt |  7.520267   .1075031   24.72932   .1382061  -7.513349   2.8
> 76589
            radw1 | -3.389208  -1.897272  -549.9649  -.7104718   435.3643  -2.0
> 79618   1405.566
            airw1 |   138.542  -.2204419  -168.1482  -1.279762   80.62413   13.
> 09682    233.514   1317.452
          radchw2 | -10.55403   6.114537   -113.786   1.140515   835.1733  -2.1
> 73483   75.04952  -56.80162   1169.931
            illw2 |  1.700824   .0800919   7.159718   .0387182  -2.690693   .39
> 68931   -.137914   1.542474   .0947417   .3556923
    -------------+------------------------------------------------------------
> ---------------------------------------------
```

Means of exogenous variables

```
                  | observed
>
            kappa |        age  avgcumd~1     havmil      illw1    radchw1    ic
> dxcnt       radw1       airw1    radchw2       illw2
    -------------+------------------------------------------------------------
> ---------------------------------------------
            mean |  49.06344   .4043997   76.47227   .0966767   53.11178   2.1
> 32931   49.84894   61.36254   48.82779   .2870091
    -------------+------------------------------------------------------------
> ---------------------------------------------
```

```
33 . estat residuals

   Residuals of observed variables

     Mean residuals

                    | avgcumd~2     crhtw1     PTSDw1     PTSDw2     MiPTSD     c
   > rhtw2      radw2     crhtw3        age   avgcumd~1     havmil      illw1     r
   > adchw1    icdxcnt      radw1      airw1    radchw2      illw2
     -------------+-------------------------------------------------------------
   > -------------------------------------------------------------------------------
   > -----------------------------------------------------------
               raw |    -0.000      0.000      0.000      0.000      0.000
   > 0.000      0.000      0.000      0.000      0.000      0.000      0.000
   >  0.000      0.000      0.000      0.000      0.000      0.000
     -------------+-------------------------------------------------------------
   > -------------------------------------------------------------------------------
   > -----------------------------------------------------------

     Covariance residuals

                    | avgcumd~2     crhtw1     PTSDw1     PTSDw2     MiPTSD     c
   > rhtw2      radw2     crhtw3        age   avgcumd~1     havmil      illw1     r
   > adchw1    icdxcnt      radw1      airw1    radchw2      illw2
     -------------+-------------------------------------------------------------
   > -------------------------------------------------------------------------------
   > -----------------------------------------------------------
     avgcumdosew2 |    -0.000
   >
   >
           crhtw1 |     0.036      0.000
   >
   >
           PTSDw1 |     1.123      0.651     13.680
   >
   >
           PTSDw2 |    -1.315     -0.444      8.036      0.206
   >
   >
           MiPTSD |    -0.006     -0.266      7.236      2.067      1.594
   >
   >
           crhtw2 |     0.052     -0.002      0.364     -0.177     -0.117     -
   > 0.003
   >
            radw2 |    -0.125     -1.484     44.848      1.155     -0.032     -
   > 1.075     -1.725
   >
           crhtw3 |     0.039     -0.002      0.188      0.090      0.042     -
```

```
> 0.003     -1.073     -0.003
>
             age |    -0.000      0.000      0.000      1.719      2.496
> 0.384      7.001      0.508      0.000
>
    avgcumdosew1 |    -0.000      0.001     -0.052     -1.477     -0.086     -
> 0.003      0.429     -0.016      0.000      0.000
>
          havmil |    -4.175      1.977    -75.665     52.704     20.670
> 3.710    -15.804      5.659      0.000      0.000      0.000
>
           illw1 |     0.020      0.005      0.584      0.009      0.106
> 0.020      0.062      0.018      0.000      0.000      0.000      0.000
>
         radchw1 |     0.000     -1.307    -13.718    -20.711    -16.522     -
> 1.065     -1.710     -1.432      0.000      0.000      0.000      0.000
>  0.000
         icdxcnt |     0.086      0.108      1.129      0.297      0.509
> 0.101     -0.996      0.106      0.000      0.000      0.000      0.000
>  0.000      0.000
           radw1 |    -0.671     -2.260     86.486     10.669     13.749     -
> 1.586     -0.604     -1.133      0.000      0.000      0.000      0.000
>  0.000      0.000      0.000
           airw1 |     0.708      1.416    -54.183     -7.823     10.100
> 2.046     14.714      2.107      0.000      0.000      0.000      0.000
>  0.000      0.000      0.000      0.000
         radchw2 |    -0.006     -0.865   -102.697    -10.494    -12.894     -
> 0.837     11.433     -1.070      0.000      0.000      0.000      0.000
>  0.000      0.000      0.000      0.000      0.000
           illw2 |    -0.017     -0.048     -1.566     -0.267     -0.258     -
> 0.038     -0.226     -0.023      0.000      0.000      0.000      0.000
>  0.000      0.000      0.000      0.000      0.000      0.000
    -------------+------------------------------------------------------------
> -------------------------------------------------------------------------------
> -------------------------------------------------------------

34 . estat teffects
```

Direct effects

(Std. Err. adjusted for **331** clusters i
> n id)

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Inte
> rval]						
Structural						
avgcumdosew2 <-						
age	**.0063527**	**.0028829**	**2.20**	**0.028**	**.0007024**	**.01**
> 20031						
avgcumdosew1	**1.154167**	**.0995968**	**11.59**	**0.000**	**.9589612**	**1.3**
> 49373						
radchw1	**.0022729**	**.0011612**	**1.96**	**0.050**	**-3.02e-06**	**.00**
> 45488						
crhtw1 <-						
age	**.0177445**	**.0039618**	**4.48**	**0.000**	**.0099794**	**.02**
> 55095						
avgcumdosew1	**.0486254**	**.0090614**	**5.37**	**0.000**	**.0308654**	**.06**
> 63855						
havmil	**-.0010414**	**.000184**	**-5.66**	**0.000**	**-.0014021**	**-.00**
> 06807						
radw1	**.0043462**	**.0009838**	**4.42**	**0.000**	**.002418**	**.00**
> 62744						
airw1	**.0083447**	**.0014572**	**5.73**	**0.000**	**.0054885**	**.01**
> 12008						
PTSDw1 <-						
crhtw1	**45.02784**	**6.248443**	**7.21**	**0.000**	**32.78111**	**57.**
> 27456						
age	**-.7548357**	**.2749856**	**-2.75**	**0.006**	**-1.293798**	**-.21**
> 58738						
avgcumdosew1	**0**	(no path)				
havmil	**0**	(no path)				
radchw1	**-.2645937**	**.0555005**	**-4.77**	**0.000**	**-.3733728**	**-.15**
> 58147						
icdxcnt	**2.840656**	**1.144227**	**2.48**	**0.013**	**.5980126**	**5.0**
> 83299						
radw1	**0**	(no path)				
airw1	**0**	(no path)				
PTSDw2 <-						

```
     avgcumdosew2 |          0  (no path)
          crhtw1 |          0  (no path)
          PTSDw1 |   .0890829   .0202689     4.40   0.000     .0493565    .12
> 88093
          crhtw2 |   2.834349   .6892835     4.11   0.000     1.483378     4.
> 18532
           radw2 |    .089949    .024487     3.67   0.000     .0419554    .13
> 79425
             age |   .1190192   .0465987     2.55   0.011     .0276875    .21
> 03509
     avgcumdosew1 |          0  (no path)
          havmil |          0  (no path)
         radchw1 |          0  (no path)
         icdxcnt |  -1.015509   .4825423    -2.10   0.035    -1.961275   -.06
> 97436
           radw1 |          0  (no path)
           airw1 |          0  (no path)
         radchw2 |  -.0724978   .0202295    -3.58   0.000    -.1121469   -.03
> 28487
           illw2 |   2.902278   1.143514     2.54   0.011     .6610309    5.1
> 43525
-----------------+------------------------------------------------------------
> -----
  MiPTSD <-      |
     avgcumdosew2 |  -.5238148   .1427369    -3.67   0.000    -.8035739   -.24
> 40556
          crhtw1 |          0  (no path)
          PTSDw1 |   .0857138   .0147249     5.82   0.000     .0568536    .11
> 45741
          PTSDw2 |   .1496553   .0532346     2.81   0.005     .0453173    .25
> 39933
          crhtw2 |          0  (no path)
           radw2 |    .083648   .0150191     5.57   0.000     .0542112    .11
> 30848
          crhtw3 |   3.252254   .5588656     5.82   0.000     2.156898    4.3
> 47611
             age |   .0865524    .036575     2.37   0.018     .0148668     .1
> 58238
     avgcumdosew1 |          0  (no path)
          havmil |   .0082117   .0054195     1.52   0.130    -.0024103    .01
> 88338
           illw1 |   3.322843    1.23748     2.69   0.007     .8974274    5.7
> 48259
         radchw1 |          0  (no path)
         icdxcnt |          0  (no path)
           radw1 |          0  (no path)
           airw1 |          0  (no path)
         radchw2 |  -.0429887   .0136569    -3.15   0.002    -.0697557   -.01
> 62217
```

```
            illw2 |    2.96863   .7882518     3.77   0.000     1.423685    4.5
> 13575
------------------+------------------------------------------------------------
> ------
  crhtw2 <-       |
           crhtw1 |    .814823   .0263862    30.88   0.000      .763107    .86
> 65389
              age |           0  (no path)
     avgcumdosew1 |  -.0316244   .0096966    -3.26   0.001    -.0506294   -.01
> 26194
            havmil |           0  (no path)
           radchw1 |  -.0078758   .0015021    -5.24   0.000    -.0108199   -.00
> 49316
           icdxcnt |   .0599257    .017026     3.52   0.000     .0265554    .09
> 32961
             radw1 |           0  (no path)
             airw1 |           0  (no path)
           radchw2 |   .0094107   .0014968     6.29   0.000     .0064769    .01
> 23444
             illw2 |    .211714   .0447066     4.74   0.000     .1240906    .29
> 93373
------------------+------------------------------------------------------------
> ------
  radw2 <-        |
     avgcumdosew2 |   1.519426   .3394897     4.48   0.000     .8540384    2.1
> 84813
           crhtw1 |  -26.07633   4.097766    -6.36   0.000    -34.10781   -18.
> 04486
           crhtw2 |   33.60794   4.483277     7.50   0.000     24.82087       4
> 2.395
              age |           0  (no path)
     avgcumdosew1 |           0  (no path)
            havmil |           0  (no path)
           radchw1 |  -.1090378   .0333397    -3.27   0.001    -.1743823   -.04
> 36932
           icdxcnt |           0  (no path)
             radw1 |   .6706916   .0322082    20.82   0.000     .6075648    .73
> 38185
             airw1 |  -.0781947   .0332206    -2.35   0.019     -.143306   -.01
> 30835
           radchw2 |           0  (no path)
             illw2 |           0  (no path)
------------------+------------------------------------------------------------
> ------
  crhtw3 <-       |
           crhtw1 |  -.1193749   .0386943    -3.09   0.002    -.1952143   -.04
> 35354
           crhtw2 |   1.060463   .0336763    31.49   0.000     .9944586    1.1
> 26467
```

```
             age |          0  (no path)
     avgcumdosew1 |          0  (no path)
           havmil |          0  (no path)
          radchw1 |          0  (no path)
          icdxcnt |          0  (no path)
            radw1 |          0  (no path)
            airw1 |          0  (no path)
          radchw2 |          0  (no path)
            illw2 |          0  (no path)
------------------+------------------------------------------------------------

> ------

Indirect effects
                                       (Std. Err. adjusted for 331 clusters i
> n id)
------------------+------------------------------------------------------------
> ------
                  |               Robust
                  |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
> rval]
------------------+------------------------------------------------------------
> ------
Structural        |
  avgcumdosew2 <- |
             age |          0  (no path)
     avgcumdosew1 |          0  (no path)
          radchw1 |          0  (no path)
  ----------------+------------------------------------------------------------
> ------
  crhtw1 <-       |
             age |          0  (no path)
     avgcumdosew1 |          0  (no path)
           havmil |          0  (no path)
            radw1 |          0  (no path)
            airw1 |          0  (no path)
  ----------------+------------------------------------------------------------
> ------
  PTSDw1 <-       |
           crhtw1 |          0  (no path)
             age |   .7989942   .2422571     3.30   0.001      .324179    1.2
> 73809
     avgcumdosew1 |   2.189498   .3880511     5.64   0.000     1.428932    2.9
> 50064
           havmil |  -.0468933   .0089795    -5.22   0.000    -.0644928   -.02
> 92937
          radchw1 |          0  (no path)
          icdxcnt |          0  (no path)
            radw1 |    .195701   .0563779     3.47   0.001     .0852023    .30
```

```
> 61997
           airw1 |   .3757426   .0460225     8.16   0.000     .2855401    .46
> 59451
-----------------+------------------------------------------------------------
> -----
  PTSDw2 <-      |
   avgcumdosew2 |   .1366708   .0305367     4.48   0.000     .0768199    .19
> 65217
          crhtw1 |   6.438374   .6555051     9.82   0.000     5.153608    7.7
> 23141
          PTSDw1 |          0  (no path)
          crhtw2 |   3.022999   .4032661     7.50   0.000     2.232612    3.8
> 13386
           radw2 |          0  (no path)
             age |   .0478707   .0231425     2.07   0.039     .0025122    .09
> 32291
   avgcumdosew1 |   .2855747   .0721898     3.96   0.000     .1440853     .4
> 27064
          havmil |  -.0067051   .0017233    -3.89   0.000    -.0100827   -.00
> 33276
        radchw1 |   -.079199   .0199404    -3.97   0.000    -.1182816   -.04
> 01165
        icdxcnt |   .6040598   .1637455     3.69   0.000     .2831246     .9
> 24995
           radw1 |   .0883106   .0224974     3.93   0.000     .0442165    .13
> 24047
           airw1 |   .0466926   .0124215     3.76   0.000     .0223469    .07
> 10383
        radchw2 |   .0551216   .0160133     3.44   0.001     .0237361    .08
> 65071
           illw2 |   1.240082   .3735226     3.32   0.001     .5079915    1.9
> 72173
-----------------+------------------------------------------------------------
> -----
  MiPTSD <-      |
   avgcumdosew2 |   .1475505   .0329676     4.48   0.000     .0829351    .21
> 21658
          crhtw1 |   7.354475   .7364147     9.99   0.000     5.911128    8.7
> 97821
          PTSDw1 |   .0133317   .0030334     4.40   0.000     .0073865     .0
> 19277
          PTSDw2 |          0  (no path)
          crhtw2 |   7.136716   .4610571    15.48   0.000      6.23306    8.0
> 40371
           radw2 |   .0134613   .0036646     3.67   0.000     .0062788    .02
> 06438
          crhtw3 |          0  (no path)
             age |   .0711595   .0257436     2.76   0.006     .0207029    .12
> 16161
```

```
    avgcumdosew1 |  -.3023517   .1875565    -1.61   0.107    -.6699557    .06
> 52523
         havmil |  -.0076592   .0014869    -5.15   0.000    -.0105734   -.00
> 47449
          illw1 |           0  (no path)
        radchw1 |  -.0938577   .0153248    -6.12   0.000    -.1238938   -.06
> 38216
        icdxcnt |   .5570509   .1659027     3.36   0.001     .2318875    .88
> 22143
          radw1 |   .0970946   .0144364     6.73   0.000     .0687997    .12
> 53895
          airw1 |   .0537773   .0105635     5.09   0.000     .0330731    .07
> 44814
        radchw2 |   .0563116   .0142641     3.95   0.000     .0283546    .08
> 42687
          illw2 |   1.945284    .430746     4.52   0.000     1.101037     2.
> 78953
----------------+-------------------------------------------------------------
> -----
  crhtw2 <-     |
         crhtw1 |           0  (no path)
            age |   .0144586   .0032813     4.41   0.000     .0080273    .02
> 08899
    avgcumdosew1 |   .0396211   .0075787     5.23   0.000     .0247671    .05
> 44751
         havmil |  -.0008486   .0001579    -5.37   0.000    -.0011581   -.00
> 05391
        radchw1 |           0  (no path)
        icdxcnt |           0  (no path)
          radw1 |   .0035414   .0008209     4.31   0.000     .0019324    .00
> 51504
          airw1 |   .0067994   .0012229     5.56   0.000     .0044027    .00
> 91962
        radchw2 |           0  (no path)
          illw2 |           0  (no path)
----------------+-------------------------------------------------------------
> -----
  radw2 <-      |
    avgcumdosew2 |           0  (no path)
         crhtw1 |   27.38452   .8867851    30.88   0.000     25.64645    29.
> 12258
         crhtw2 |           0  (no path)
            age |   .0328655   .0220964     1.49   0.137    -.0104427    .07
> 61737
    avgcumdosew1 |   .7544526   .3062052     2.46   0.014     .1543014    1.3
> 54604
         havmil |  -.0013624   .0012865    -1.06   0.290    -.0038838    .00
> 11591
        radchw1 |  -.2612345   .0607073    -4.30   0.000    -.3802187   -.14
```

```
> 22503
          icdxcnt |    2.01398   .5389322     3.74   0.000     .9576922    3.0
> 70267
            radw1 |   .0056857   .0055206     1.03   0.303    -.0051345    .01
> 65058
            airw1 |   .0109164   .0102554     1.06   0.287    -.0091839    .03
> 10166
          radchw2 |   .3162734   .0625443     5.06   0.000     .1936889    .43
> 88579
            illw2 |   7.115269   1.596452     4.46   0.000     3.986281    10.
> 24426
----------------- +------------------------------------------------------------
> -----
  crhtw3 <-       |
           crhtw1 |   .8640896   .0279816    30.88   0.000     .8092468    .91
> 89325
           crhtw2 |          0  (no path)
              age |   .0132146   .0030299     4.36   0.000      .007276    .01
> 91531
     avgcumdosew1 |   .0026756   .0097096     0.28   0.783    -.0163549     .0
> 21706
            havmil |  -.0007756   .0001451    -5.34   0.000      -.00106   -.00
> 04911
          radchw1 |   -.008352   .0015453    -5.40   0.000    -.0113808   -.00
> 53231
          icdxcnt |    .063549   .0177646     3.58   0.000     .028731     .0
> 98367
            radw1 |   .0032367   .0007686     4.21   0.000     .0017303     .0
> 04743
            airw1 |   .0062144   .0011219     5.54   0.000     .0040156    .00
> 84132
          radchw2 |   .0099797   .0015135     6.59   0.000     .0070132    .01
> 29461
            illw2 |   .2245148   .0483968     4.64   0.000     .1296588    .31
> 93708
----------------- +------------------------------------------------------------
> -----
```

Total effects

(Std. Err. adjusted for **331** clusters i
> n id)

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Inte
> rval]						
Structural						
avgcumdosew2 <-						
age	**.0063527**	**.0028829**	**2.20**	**0.028**	**.0007024**	**.01**
> 20031						
avgcumdosew1	**1.154167**	**.0995968**	**11.59**	**0.000**	**.9589612**	**1.3**
> 49373						
radchw1	**.0022729**	**.0011612**	**1.96**	**0.050**	**-3.02e-06**	**.00**
> 45488						
crhtw1 <-						
age	**.0177445**	**.0039618**	**4.48**	**0.000**	**.0099794**	**.02**
> 55095						
avgcumdosew1	**.0486254**	**.0090614**	**5.37**	**0.000**	**.0308654**	**.06**
> 63855						
havmil	**-.0010414**	**.000184**	**-5.66**	**0.000**	**-.0014021**	**-.00**
> 06807						
radw1	**.0043462**	**.0009838**	**4.42**	**0.000**	**.002418**	**.00**
> 62744						
airw1	**.0083447**	**.0014572**	**5.73**	**0.000**	**.0054885**	**.01**
> 12008						
PTSDw1 <-						
crhtw1	**45.02784**	**6.248443**	**7.21**	**0.000**	**32.78111**	**57.**
> 27456						
age	**.0441585**	**.1606431**	**0.27**	**0.783**	**-.2706961**	**.35**
> 90131						
avgcumdosew1	**2.189498**	**.3880511**	**5.64**	**0.000**	**1.428932**	**2.9**
> 50064						
havmil	**-.0468933**	**.0089795**	**-5.22**	**0.000**	**-.0644928**	**-.02**
> 92937						
radchw1	**-.2645937**	**.0555005**	**-4.77**	**0.000**	**-.3733728**	**-.15**
> 58147						
icdxcnt	**2.840656**	**1.144227**	**2.48**	**0.013**	**.5980126**	**5.0**
> 83299						
radw1	**.195701**	**.0563779**	**3.47**	**0.001**	**.0852023**	**.30**
> 61997						
airw1	**.3757426**	**.0460225**	**8.16**	**0.000**	**.2855401**	**.46**

```
> 59451
-------------------+----------------------------------------------------------------
> -----
  PTSDw2 <-        |
     avgcumdosew2  |   .1366708   .0305367     4.48   0.000     .0768199    .19
> 65217
           crhtw1  |   6.438374   .6555051     9.82   0.000     5.153608    7.7
> 23141
           PTSDw1  |   .0890829   .0202689     4.40   0.000     .0493565    .12
> 88093
           crhtw2  |   5.857348   .7771339     7.54   0.000     4.334194    7.3
> 80503
            radw2  |    .089949    .024487     3.67   0.000     .0419554    .13
> 79425
              age  |   .1668899   .0543592     3.07   0.002     .0603479    .27
> 34319
     avgcumdosew1  |   .2855747   .0721898     3.96   0.000     .1440853     .4
> 27064
           havmil  |  -.0067051   .0017233    -3.89   0.000    -.0100827   -.00
> 33276
          radchw1  |   -.079199   .0199404    -3.97   0.000    -.1182816   -.04
> 01165
          icdxcnt  |  -.4114493   .4187811    -0.98   0.326    -1.232245    .40
> 93466
            radw1  |   .0883106   .0224974     3.93   0.000     .0442165    .13
> 24047
            airw1  |   .0466926   .0124215     3.76   0.000     .0223469    .07
> 10383
          radchw2  |  -.0173762   .0195219    -0.89   0.373    -.0556385    .02
> 08861
            illw2  |    4.14236   1.130862     3.66   0.000      1.92591     6.
> 35881
-------------------+----------------------------------------------------------------
> -----
  MiPTSD <-        |
     avgcumdosew2  |  -.3762643   .1558397    -2.41   0.016    -.6817045   -.07
> 08241
           crhtw1  |   7.354475   .7364147     9.99   0.000     5.911128    8.7
> 97821
           PTSDw1  |   .0990456   .0151869     6.52   0.000     .0692798    .12
> 88114
           PTSDw2  |   .1496553   .0532346     2.81   0.005     .0453173    .25
> 39933
           crhtw2  |   7.136716   .4610571    15.48   0.000      6.23306    8.0
> 40371
            radw2  |   .0971094   .0155836     6.23   0.000      .066566    .12
> 76527
           crhtw3  |   3.252254   .5588656     5.82   0.000     2.156898    4.3
> 47611
```

```
             age |   .1577119   .0439662     3.59   0.000     .0715397    .24
> 38841
     avgcumdosew1 |  -.3023517   .1875565    -1.61   0.107    -.6699557    .06
> 52523
           havmil |   .0005526   .0051337     0.11   0.914    -.0095093    .01
> 06144
            illw1 |   3.322843    1.23748     2.69   0.007     .8974274    5.7
> 48259
          radchw1 |  -.0938577   .0153248    -6.12   0.000    -.1238938   -.06
> 38216
          icdxcnt |   .5570509   .1659027     3.36   0.001     .2318875    .88
> 22143
            radw1 |   .0970946   .0144364     6.73   0.000     .0687997    .12
> 53895
            airw1 |   .0537773   .0105635     5.09   0.000     .0330731    .07
> 44814
          radchw2 |    .013323   .0159403     0.84   0.403    -.0179195    .04
> 45654
            illw2 |   4.913914   .7909836     6.21   0.000     3.363614    6.4
> 64213
------------------+------------------------------------------------------------
> ------
  crhtw2 <-       |
           crhtw1 |    .814823   .0263862    30.88   0.000      .763107    .86
> 65389
             age |   .0144586   .0032813     4.41   0.000     .0080273    .02
> 08899
     avgcumdosew1 |   .0079967   .0095394     0.84   0.402    -.0107001    .02
> 66936
           havmil |  -.0008486   .0001579    -5.37   0.000    -.0011581   -.00
> 05391
          radchw1 |  -.0078758   .0015021    -5.24   0.000    -.0108199   -.00
> 49316
          icdxcnt |   .0599257    .017026     3.52   0.000     .0265554    .09
> 32961
            radw1 |   .0035414   .0008209     4.31   0.000     .0019324    .00
> 51504
            airw1 |   .0067994   .0012229     5.56   0.000     .0044027    .00
> 91962
          radchw2 |   .0094107   .0014968     6.29   0.000     .0064769    .01
> 23444
            illw2 |    .211714   .0447066     4.74   0.000     .1240906    .29
> 93373
------------------+------------------------------------------------------------
> ------
  radw2 <-        |
     avgcumdosew2 |   1.519426   .3394897     4.48   0.000     .8540384    2.1
> 84813
           crhtw1 |   1.308183   3.842026     0.34   0.733     -6.22205    8.8
```

```
> 38416
          crhtw2 |   33.60794   4.483277     7.50   0.000     24.82087      4
> 2.395
             age |   .0328655   .0220964     1.49   0.137    -.0104427    .07
> 61737
    avgcumdosew1 |   .7544526   .3062052     2.46   0.014     .1543014    1.3
> 54604
          havmil |  -.0013624   .0012865    -1.06   0.290    -.0038838    .00
> 11591
         radchw1 |  -.3702722   .0592375    -6.25   0.000    -.4863755   -.25
> 41689
         icdxcnt |    2.01398   .5389322     3.74   0.000     .9576922    3.0
> 70267
           radw1 |   .6763773   .0324041    20.87   0.000     .6128664    .73
> 98882
           airw1 |  -.0672784   .0307992    -2.18   0.029    -.1276437   -.0
> 06913
         radchw2 |   .3162734   .0625443     5.06   0.000     .1936889    .43
> 88579
           illw2 |   7.115269   1.596452     4.46   0.000     3.986281    10.
> 24426
-----------------+------------------------------------------------------------
> -----
  crhtw3 <-      |
          crhtw1 |   .7447148    .042452    17.54   0.000     .6615104    .82
> 79191
          crhtw2 |   1.060463   .0336763    31.49   0.000     .9944586    1.1
> 26467
             age |   .0132146   .0030299     4.36   0.000      .007276    .01
> 91531
    avgcumdosew1 |   .0026756   .0097096     0.28   0.783    -.0163549     .0
> 21706
          havmil |  -.0007756   .0001451    -5.34   0.000      -.00106   -.00
> 04911
         radchw1 |   -.008352   .0015453    -5.40   0.000    -.0113808   -.00
> 53231
         icdxcnt |    .063549   .0177646     3.58   0.000     .028731     .0
> 98367
           radw1 |   .0032367   .0007686     4.21   0.000     .0017303     .0
> 04743
           airw1 |   .0062144   .0011219     5.54   0.000     .0040156    .00
> 84132
         radchw2 |   .0099797   .0015135     6.59   0.000     .0070132    .01
> 29461
           illw2 |   .2245148   .0483968     4.64   0.000     .1296588    .31
> 93708
-----------------+------------------------------------------------------------
> -----
```

```
35 .
36 .
37 .
38 .
39 . // reductionistic perspective
40 .
41 . set more off

42 . title "Trimmed version of regular male path model"
```

```
*******************************************************************************
> *
*******************************************************************************
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****             Trimmed version of regular male path model               ****
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                                          29 Jul 2012    14:48:46  ****
> *
*******************************************************************************
> *
*******************************************************************************
> *
```

```
43 . title4 "sem model builder is called TrimMaleCRHTPTSD.stsem"
```

```
------------------------------------------------------------------------------
sem model builder is called TrimMaleCRHTPTSD.stsem
------------------------------------------------------------------------------
```

```
44 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/P
   > TSDpathmodel/TrimMaleCRHTPTSD.stsem"
45 . // save  "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/PTSDpa
   > thmodel/TrimMaleCRHTPTSD.stsem", replace
46 .
47 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) ///
   >     (crhtw2 -> crhtw3) (crhtw2 -> PTSDw2) (crhtw3 -> MiPTSD) ///
   >     (PTSDw1 -> crhtw1) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) ///
   >     (PTSDw2 -> MiPTSD) (injselfr -> crhtw1) (injselfr -> crhtw2) ///
   >     (injselfr -> MiPTSD) if gender==1, nocapslatent nolog

Endogenous variables

Observed:  crhtw1 crhtw2 crhtw3 MiPTSD PTSDw2

Exogenous variables

Observed:  PTSDw1 injselfr

Structural equation model                       Number of obs      =       339
Estimation method  = ml
Log likelihood     = -5130.5154
```

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
PTSDw1	.0075017	.0011921	6.29	0.000	.0051653	.0098382
injselfr	.5539009	.0928027	5.97	0.000	.3720109	.7357908
_cons	-.6054964	.0634708	-9.54	0.000	-.7298969	-.4810958
crhtw2 <-						
crhtw1	.7514893	.0332036	22.63	0.000	.6864114	.8165672
injselfr	.2618765	.0616603	4.25	0.000	.1410245	.3827285
_cons	-.2100764	.0437581	-4.80	0.000	-.2958407	-.1243121
crhtw3 <-						
crhtw1	-.1183935	.0256569	-4.61	0.000	-.1686801	-.0681068
crhtw2	1.055212	.0258798	40.77	0.000	1.004489	1.105936
_cons	-.0069225	.0140543	-0.49	0.622	-.0344684	.0206233
MiPTSD <-						
crhtw1	-1.849935	.7731984	-2.39	0.017	-3.365376	-.3344945
crhtw3	4.927604	.7946477	6.20	0.000	3.370123	6.485085
PTSDw2	.2665143	.0421779	6.32	0.000	.1838472	.3491814
PTSDw1	.0808051	.0142788	5.66	0.000	.0528192	.108791
injselfr	3.447021	1.070284	3.22	0.001	1.349304	5.544739

```
       _cons |   42.75577   .7955092    53.75   0.000      41.1966    44.31494
-------------+----------------------------------------------------------------
PTSDw2 <-    |
       crhtw2 |   3.252395   .6994254     4.65   0.000     1.881546    4.623243
       PTSDw1 |   .1135152   .0165407     6.86   0.000      .081096    .1459343
        _cons |   2.938981   .7581536     3.88   0.000     1.453027    4.424935
-------------+----------------------------------------------------------------
Variance     |
    e.crhtw1 |   .6448896   .0495337                      .5547598    .7496624
    e.crhtw2 |   .2691769   .0206754                      .2315567     .312909
    e.crhtw3 |   .0643684   .0049441                      .0553723    .0748261
    e.MiPTSD |   72.54493   5.572143                      62.40605    84.33104
    e.PTSDw2 |   121.5669     9.3375                      104.5767    141.3175
------------------------------------------------------------------------------
LR test of model vs. saturated: chi2(7)   =     10.34, Prob > chi2 = 0.1702

48 .
49 .
50 . title4 "Cluster robust version : same diagram is called TrimMaleCRHTPTSD.sts
   > em"
------------------------------------------------------------------------------
Cluster robust version : same diagram is called TrimMaleCRHTPTSD.stsem
------------------------------------------------------------------------------

51 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) ///
   >     (crhtw2 -> crhtw3) (crhtw2 -> PTSDw2) (crhtw3 -> MiPTSD) ///
   >     (PTSDw1 -> crhtw1) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) ///
   >     (PTSDw2 -> MiPTSD) (injselfr -> crhtw1) (injselfr -> crhtw2) ///
   >     (injselfr -> MiPTSD) if gender==1, nocapslatent nolog vce(cluster id)

Endogenous variables

Observed:  crhtw1 crhtw2 crhtw3 MiPTSD PTSDw2

Exogenous variables

Observed:  PTSDw1 injselfr

Structural equation model                       Number of obs      =       339
Estimation method  = ml
Log pseudolikelihood= -5130.5154
```

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
PTSDw1	.0075017	.0011285	6.65	0.000	.0052899	.0097136
injselfr	.5539009	.0957262	5.79	0.000	.3662809	.7415209
_cons	-.6054964	.0612681	-9.88	0.000	-.7255796	-.4854131
crhtw2 <-						
crhtw1	.7514893	.0394329	19.06	0.000	.6742022	.8287765
injselfr	.2618765	.0694826	3.77	0.000	.1256931	.39806
_cons	-.2100764	.0373159	-5.63	0.000	-.2832143	-.1369385
crhtw3 <-						
crhtw1	-.1183935	.0379136	-3.12	0.002	-.1927027	-.0440842
crhtw2	1.055212	.0329604	32.01	0.000	.990611	1.119814
_cons	-.0069225	.0143437	-0.48	0.629	-.0350358	.0211907
MiPTSD <-						
crhtw1	-1.849935	.8070961	-2.29	0.022	-3.431815	-.2680561
crhtw3	4.927604	.8149848	6.05	0.000	3.330263	6.524945
PTSDw2	.2665143	.0680013	3.92	0.000	.1332342	.3997945
PTSDw1	.0808051	.0171178	4.72	0.000	.0472549	.1143553
injselfr	3.447021	1.006112	3.43	0.001	1.475077	5.418965
_cons	42.75577	.7375642	57.97	0.000	41.31017	44.20137
PTSDw2 <-						
crhtw2	3.252395	.6481165	5.02	0.000	1.98211	4.52268
PTSDw1	.1135152	.0228609	4.97	0.000	.0687087	.1583216
_cons	2.938981	.4651981	6.32	0.000	2.027209	3.850752
Variance						
e.crhtw1	.6448896	.0396056			.571754	.7273802
e.crhtw2	.2691769	.036238			.2067495	.3504539
e.crhtw3	.0643684	.0182932			.0368779	.1123517
e.MiPTSD	72.54493	6.920618			60.17338	87.46005
e.PTSDw2	121.5669	30.39197			74.47549	198.4347

```
52 . estat mindices

   Modification indices
```

	MI	df	P>MI	EPC	Standard EPC
Structural					
crhtw2 <- crhtw3	**6.137**	**1**	**0.01**	**-1.188963**	**-1.187853**
crhtw3 <- PTSDw2	**4.494**	**1**	**0.03**	**.0015098**	**.0207473**
crhtw3 <- injselfr	**6.137**	**1**	**0.01**	**.074456**	**.04048**
Covariance					
e.crhtw2 e.crhtw3	**6.137**	**1**	**0.01**	**-.0765316**	**-.5814144**

```
   EPC = expected parameter change

53 . estat ic
```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	**339**	.	**-5130.515**	**23**	**10307.03**	**10395.03**

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

54 . estat gof
   Note: model was fit with vce(cluster); only stats(residuals) valid.

55 . estat framework
   (model contains no latent variables)

   Endogenous variables on endogenous variables
```

Beta	observed crhtw1	crhtw2	crhtw3	MiPTSD	PTSDw2
observed					
crhtw1	**0**	**0**	**0**	**0**	**0**
crhtw2	**.7514893**	**0**	**0**	**0**	**0**
crhtw3	**-.1183935**	**1.055212**	**0**	**0**	**0**
MiPTSD	**-1.849935**	**0**	**4.927604**	**0**	**.2665143**
PTSDw2	**0**	**3.252395**	**0**	**0**	**0**

Exogenous variables on endogenous variables

Gamma	observed PTSDw1	injselfr
observed		
crhtw1	**.0075017**	**.5539009**
crhtw2	**0**	**.2618765**
crhtw3	**0**	**0**
MiPTSD	**.0808051**	**3.447021**
PTSDw2	**.1135152**	**0**

Covariances of error variables

Psi	observed e.crhtw1	e.crhtw2	e.crhtw3	e.MiPTSD	e.PTSDw2
observed					
e.crhtw1	**.6448896**				
e.crhtw2	**0**	**.2691769**			
e.crhtw3	**0**	**0**	**.0643684**		
e.MiPTSD	**0**	**0**	**0**	**72.54493**	
e.PTSDw2	**0**	**0**	**0**	**0**	**121.5669**

Intercepts of endogenous variables

alpha	observed crhtw1	crhtw2	crhtw3	MiPTSD	PTSDw2
_cons	**-.6054964**	**-.2100764**	**-.0069225**	**42.75577**	**2.938981**

Covariances of exogenous variables

Phi	observed PTSDw1	injselfr
observed		
PTSDw1	**1514.785**	
injselfr	**6.634906**	**.2499456**

Means of exogenous variables

kappa	observed PTSDw1	injselfr
mean	**24.30678**	**.5073746**

```
56 . estat residuals
```

Residuals of observed variables

Mean residuals

| | crhtw1 | crhtw2 | crhtw3 | MiPTSD | PTSDw2 | P
> TSDw1 | injselfr |
|---|---|---|---|---|---|---|
| raw | **-0.000** | **-0.000** | **-0.000** | **-0.000** | **-0.000** | **> 0.000** | **0.000** |

Covariance residuals

| | crhtw1 | crhtw2 | crhtw3 | MiPTSD | PTSDw2 | P
> TSDw1 | injselfr |
|---|---|---|---|---|---|---|
| crhtw1 | **-0.000** | | | | | **>** | |
| crhtw2 | **-0.000** | **-0.000** | | | | **>** | |
| crhtw3 | **-0.000** | **-0.000** | **-0.000** | | | **>** | |
| MiPTSD | **-0.088** | **0.013** | **0.112** | **1.391** | | **>** | |
| PTSDw2 | **-0.332** | **0.012** | **0.260** | **1.824** | **0.081** | **>** | |
| PTSDw1 | **-0.000** | **0.110** | **-0.097** | **-0.382** | **0.357** | **> 0.000** | |

```
        injselfr |    -0.000     -0.000      0.015      0.063     -0.036
> 0.000      0.000
                 |
> ----------------
```

```
57 . estat teffects
```

Direct effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
PTSDw1	**.0075017**	**.0011285**	**6.65**	**0.000**	**.0052899**	**.0097136**
injselfr	**.5539009**	**.0957262**	**5.79**	**0.000**	**.3662809**	**.7415209**
crhtw2 <-						
crhtw1	**.7514893**	**.0394329**	**19.06**	**0.000**	**.6742022**	**.8287765**
PTSDw1	**0**	(no path)				
injselfr	**.2618765**	**.0694826**	**3.77**	**0.000**	**.1256931**	**.39806**
crhtw3 <-						
crhtw1	**-.1183935**	**.0379136**	**-3.12**	**0.002**	**-.1927027**	**-.0440842**
crhtw2	**1.055212**	**.0329604**	**32.01**	**0.000**	**.990611**	**1.119814**
PTSDw1	**0**	(no path)				
injselfr	**0**	(no path)				
MiPTSD <-						
crhtw1	**-1.849935**	**.8070961**	**-2.29**	**0.022**	**-3.431815**	**-.2680561**
crhtw2	**0**	(no path)				
crhtw3	**4.927604**	**.8149848**	**6.05**	**0.000**	**3.330263**	**6.524945**
PTSDw2	**.2665143**	**.0680013**	**3.92**	**0.000**	**.1332342**	**.3997945**
PTSDw1	**.0808051**	**.0171178**	**4.72**	**0.000**	**.0472549**	**.1143553**
injselfr	**3.447021**	**1.006112**	**3.43**	**0.001**	**1.475077**	**5.418965**
PTSDw2 <-						
crhtw1	**0**	(no path)				
crhtw2	**3.252395**	**.6481165**	**5.02**	**0.000**	**1.98211**	**4.52268**
PTSDw1	**.1135152**	**.0228609**	**4.97**	**0.000**	**.0687087**	**.1583216**
injselfr	**0**	(no path)				

Indirect effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
PTSDw1	**0**	(no path)				
injselfr	**0**	(no path)				
crhtw2 <-						
crhtw1	**0**	(no path)				
PTSDw1	**.0056375**	**.0008828**	**6.39**	**0.000**	**.0039073**	**.0073676**
injselfr	**.4162506**	**.0757525**	**5.49**	**0.000**	**.2677784**	**.5647228**
crhtw3 <-						
crhtw1	**.7929807**	**.0416101**	**19.06**	**0.000**	**.7114264**	**.8745351**
crhtw2	**0**	(no path)				
PTSDw1	**.0050606**	**.0008042**	**6.29**	**0.000**	**.0034843**	**.0066368**
injselfr	**.6499898**	**.0889309**	**7.31**	**0.000**	**.4756884**	**.8242912**
MiPTSD <-						
crhtw1	**3.975497**	**.2644862**	**15.03**	**0.000**	**3.457114**	**4.493881**
crhtw2	**6.066478**	**.2403496**	**25.24**	**0.000**	**5.595401**	**6.537554**
crhtw3	**0**	(no path)				
PTSDw2	**0**	(no path)				
PTSDw1	**.0461988**	**.0096855**	**4.77**	**0.000**	**.0272156**	**.065182**
injselfr	**2.766018**	**.5617233**	**4.92**	**0.000**	**1.665061**	**3.866976**
PTSDw2 <-						
crhtw1	**2.44414**	**.1282515**	**19.06**	**0.000**	**2.192772**	**2.695508**
crhtw2	**0**	(no path)				
PTSDw1	**.0183353**	**.0048373**	**3.79**	**0.000**	**.0088543**	**.0278162**
injselfr	**2.205537**	**.5269673**	**4.19**	**0.000**	**1.1727**	**3.238374**

Total effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
PTSDw1	**.0075017**	**.0011285**	**6.65**	**0.000**	**.0052899**	**.0097136**
injselfr	**.5539009**	**.0957262**	**5.79**	**0.000**	**.3662809**	**.7415209**
crhtw2 <-						
crhtw1	**.7514893**	**.0394329**	**19.06**	**0.000**	**.6742022**	**.8287765**
PTSDw1	**.0056375**	**.0008828**	**6.39**	**0.000**	**.0039073**	**.0073676**
injselfr	**.6781271**	**.0910938**	**7.44**	**0.000**	**.4995865**	**.8566677**
crhtw3 <-						
crhtw1	**.6745873**	**.0488472**	**13.81**	**0.000**	**.5788485**	**.7703261**
crhtw2	**1.055212**	**.0329604**	**32.01**	**0.000**	**.990611**	**1.119814**
PTSDw1	**.0050606**	**.0008042**	**6.29**	**0.000**	**.0034843**	**.0066368**
injselfr	**.6499898**	**.0889309**	**7.31**	**0.000**	**.4756884**	**.8242912**
MiPTSD <-						
crhtw1	**2.125562**	**.8576692**	**2.48**	**0.013**	**.4445609**	**3.806563**
crhtw2	**6.066478**	**.2403496**	**25.24**	**0.000**	**5.595401**	**6.537554**
crhtw3	**4.927604**	**.8149848**	**6.05**	**0.000**	**3.330263**	**6.524945**
PTSDw2	**.2665143**	**.0680013**	**3.92**	**0.000**	**.1332342**	**.3997945**
PTSDw1	**.1270039**	**.0164942**	**7.70**	**0.000**	**.0946759**	**.1593319**
injselfr	**6.21304**	**1.060163**	**5.86**	**0.000**	**4.135158**	**8.290922**
PTSDw2 <-						
crhtw1	**2.44414**	**.1282515**	**19.06**	**0.000**	**2.192772**	**2.695508**
crhtw2	**3.252395**	**.6481165**	**5.02**	**0.000**	**1.98211**	**4.52268**
PTSDw1	**.1318504**	**.0252552**	**5.22**	**0.000**	**.0823512**	**.1813497**
injselfr	**2.205537**	**.5269673**	**4.19**	**0.000**	**1.1727**	**3.238374**

```
58 .
59 .
60 .
61 . title "h6  Common perceptions of Chornobyl health" "related risk and PTSD fo
   > r females"


   ********************************************************************************
   > *
   ********************************************************************************
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****             h6  Common perceptions of Chornobyl health               ****
   > *
   *****                 related risk and PTSD for females                    ****
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****                                        29 Jul 2012    14:48:49  ****
   > *
   ********************************************************************************
   > *
   ********************************************************************************
   > *



62 . set more off

63 . sem( kmacc kmwork age->avgcumdosew1)(airw1 kmacc kmwork radhlw1 ->radchw1) /
   > //
   >     (radchw1->radchw2)(airw1->airw2)(age ->crhtw1) (PTSDw1->PTSDw2)  ///
   >     (avgcumdosew1 age airw2 crhtw1 radchw1 radchw2->crhtw2) (havmil->kmwork)
   >  ///
   >     ( radchw1 radhlw1->crhtw1)(kmacc->radchw2) (radchw1 kmacc  kmwork ->radc
   > hw2) ///
   >     (age->radchw1) (avgcumdosew1->radchw2) ///
   >      (age ->airw2) (crhtw1->airw2)(age avgcumdosew1 PTSDw1 PTSDw2 crhtw1 crh
   > tw2->MiPTSD) ///
   >       if gender==2, nocapslatent iterate(200)
   (2 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **kmwork avgcumdosew1 radchw1 radchw2 airw2 crhtw1 PTSDw2 crhtw2 MiPTSD**

Exogenous variables

Observed: **kmacc age airw1 radhlw1 PTSDw1 havmil**

Fitting target model:

Iteration 0: log likelihood = **-22130.55**
Iteration 1: log likelihood = **-22130.55**

Structural equation model Number of obs = **361**
Estimation method = **ml**
Log likelihood = **-22130.55**

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
kmwork <-						
havmil	.7678895	.0343703	22.34	0.000	.7005248	.8352541
_cons	115.5287	8.498615	13.59	0.000	98.87176	132.1857
avgcumdosew1 <-						
kmwork	-.0003884	.0010885	-0.36	0.721	-.0025219	.0017451
kmacc	.0001138	.0010881	0.10	0.917	-.0020187	.0022464
age	.0083599	.0024082	3.47	0.001	.0036399	.01308
_cons	-.0307946	.1274701	-0.24	0.809	-.2806314	.2190422
radchw1 <-						
kmwork	.0429111	.0663036	0.65	0.518	-.0870416	.1728638
kmacc	-.0528118	.0662331	-0.80	0.425	-.1826262	.0770026

```
             age |   .0673804   .1508917     0.45   0.655    -.2283619     .36
> 31227
           airw1 |   .1670343   .0530069     3.15   0.002     .0631426      .2
> 70926
         radhlw1 |   .3888016   .0505154     7.70   0.000     .2897933     .48
> 78099
           _cons |   26.64206   8.263142     3.22   0.001      10.4466     42.
> 83752
-------------------+----------------------------------------------------------------
> ------
  radchw2 <-       |
          kmwork |   .0079469   .0465706     0.17   0.865    -.0833298     .09
> 92235
     avgcumdosew1 |   4.420976   2.229713     1.98   0.047     .0508189     8.7
> 91134
         radchw1 |   .6597837   .0330808    19.94   0.000     .5949466     .72
> 46208
           kmacc |   .0251429   .0465594     0.54   0.589    -.0661119     .11
> 63977
           _cons |   14.13323   2.813062     5.02   0.000     8.619724     19.
> 64673
-------------------+----------------------------------------------------------------
> ------
  airw2 <-         |
          crhtw1 |   4.771939   2.084931     2.29   0.022     .6855498     8.8
> 58328
             age |   .3126984   .1592591     1.96   0.050     .0005563     .62
> 48405
           airw1 |   .3413792   .0558761     6.11   0.000     .2318641     .45
> 08942
           _cons |  -3.519867   8.850243    -0.40   0.691    -20.86602     13.
> 82629
-------------------+----------------------------------------------------------------
> ------
  crhtw1 <-        |
         radchw1 |   .0008685   .0003081     2.82   0.005     .0002646     .00
> 14723
             age |   .0017182   .0008924     1.93   0.054     -.000031     .00
> 34673
         radhlw1 |   .0242765   .0003149    77.09   0.000     .0236593     .02
> 48937
           _cons |  -1.382818   .0459768   -30.08   0.000    -1.472931   -1.2
> 92705
-------------------+----------------------------------------------------------------
> ------
  PTSDw2 <-        |
          PTSDw1 |   .0674057   .0125948     5.35   0.000     .0427203     .09
> 20911
           _cons |   2.308176   .4765058     4.84   0.000     1.374242      3.
```

```
> 24211
-------------+----------------------------------------------------------------
> -----
  crhtw2 <-  |
    avgcumdosew1 |   .1152761   .0477203     2.42   0.016     .0217462    .20
> 88061
         radchw1 |  -.0123678   .0010597   -11.67   0.000    -.0144448   -.01
> 02909
         radchw2 |      .0146   .0010744    13.59   0.000     .0124942    .01
> 67058
           airw2 |   .0025974   .0007155     3.63   0.000     .0011951    .00
> 39998
          crhtw1 |   .6674235   .0325239    20.52   0.000     .6036778    .73
> 11692
             age |   .0061971    .002302     2.69   0.007     .0016853    .01
> 07089
           _cons |   -.510907   .1255166    -4.07   0.000    -.756915   -.26
> 48989
-------------+----------------------------------------------------------------
> -----
  MiPTSD <-  |
    avgcumdosew1 |   1.551965   1.044057     1.49   0.137    -.4943493     3.
> 59828
          crhtw1 |  -4.871468    .798249    -6.10   0.000    -6.436007   -3.3
> 06928
          PTSDw2 |   .2589542    .069413     3.73   0.000     .1229072    .39
> 50013
          crhtw2 |   6.261799   .8793748     7.12   0.000     4.538256    7.9
> 85342
             age |   .1595218   .0493551     3.23   0.001     .0627876     .2
> 56256
          PTSDw1 |   .0473405   .0174816     2.71   0.007     .0130772    .08
> 16038
           _cons |   38.86229   2.471961    15.72   0.000     34.01734    43.
> 70725
-------------+----------------------------------------------------------------
> -----
Variance     |
        e.kmwork |   21773.32   1620.638                     18817.75     25
> 193.1
   e.avgcumdosew1 |   .2883424    .021462                      .249202    .33
> 36302
       e.radchw1 |   1064.138   79.20622                     919.689    123
> 1.274
       e.radchw2 |   534.0213   39.74843                     461.5318    617
> .8961
         e.airw2 |   1193.041   88.80078                     1031.095    138
> 0.423
        e.crhtw1 |   .0377576   .0028104                     .0326323    .04
```

```
> 36879
        e.PTSDw2 |    63.3167   4.712807                      54.72192    73.
> 26138
        e.crhtw2 |    .2389773   .0177876                      .2065379    .27
> 65117
         e.MiPTSD |    108.173   8.051563                       93.4893    125
> .1629
                  |
```

```
> ------
LR test of model vs. saturated: chi2(60)  =   1328.32, Prob > chi2 = 0.0000
```

```
64 . estat mindices
```

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
kmwork <-					
radchw1	29.162	1	0.00	-1.502379	-.2565479
crhtw1	9.168	1	0.00	-25.04916	-.1038661
kmacc	349.712	1	0.00	.9854817	.9864471
radhlw1	9.569	1	0.00	-.6490071	-.1059972
avgcumdosew1 <-					
MiPTSD	7.928	1	0.00	.0224692	.484807
PTSDw1	15.402	1	0.00	.0033577	.2022973
radchw1 <-					
havmil	4.159	1	0.04	-.0302535	-.1757583
radchw2 <-					
airw2	6.262	1	0.01	.0820942	.0899958
PTSDw1	4.324	1	0.04	-.0761589	-.073878
airw2 <-					
crhtw2	9.285	1	0.00	13.63817	.3188338
PTSDw2 <-					
crhtw2	4.538	1	0.03	1.016017	.1079692
Covariance					
e.kmwork					
e.radchw1	4.159	1	0.04	857.8305	.1782133
e.radchw2					
e.airw2	9.565	1	0.00	129.9239	.1627729

```
-------------------+-----------------------------------------------------------
EPC = expected parameter change

65 .
66 .
67 . title "h6 Common perceptions of Chornobyl health" "related risk and PTSD for
>  females"

*******************************************************************************
> *
*******************************************************************************
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****             h6 Common perceptions of Chornobyl health                ****
> *
*****                 related risk and PTSD for females                    ****
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                                          29 Jul 2012    14:48:49  ****
> *
*******************************************************************************
> *
*******************************************************************************
> *


68 . title4 "sem model builder for this model is called TrimFemaleCRTHPTSD"
------------------------------------------------------------------------------
sem model builder for this model is called TrimFemaleCRTHPTSD
------------------------------------------------------------------------------
```

```
69 .
70 .
71 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/P
   > TSDpathmodel/TrimFemaleCRHTPTSD.stsem"
72 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/PTSDpat
   > hmodel/TrimFemaleCRHTPTSD.stsem", replace
73 . set more off

74 .    sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) (crhtw2 -> c
   > rhtw3)  ///
   >    (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTS
   > D) ///
   >    (injothr -> crhtw1) (injothr -> crhtw2) (injothr -> crhtw3)(fdferw1 -> cr
   > htw1) ///
   >    (fdferw1 -> PTSDw1) (fdferw1 -> MiPTSD) (fdferw1 -> healthef) (goferw1 ->
   >  crhtw2) ///
   >    (goferw1 -> PTSDw1) (healthef -> crhtw2) (healthef -> crhtw3) (healthef -
   > > PTSDw2) ///
   >    (healthef -> MiPTSD) (woman -> crhtw1) (woman -> crhtw2) (woman -> crhtw3
   > ) ///
   >    (woman -> injothr) (woman -> healthef) if gender==2, nocapslatent nolog
   (1 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

   Endogenous variables

   Observed:  crhtw1 crhtw2 crhtw3 MiPTSD PTSDw1 PTSDw2 injothr healthef

   Exogenous variables

   Observed:  fdferw1 goferw1 woman

   Structural equation model                       Number of obs      =       362
   Estimation method  = ml
   Log likelihood     = -12235.342

   ------------------------------------------------------------------------------
   > -
                |                 OIM
                |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
   > ]
   -------------+----------------------------------------------------------------
   > -
   Structural   |
     crhtw1 <-  |
         injothr |   .5609387   .1311164     4.28   0.000     .3039553     .81792
   > 2
         fdferw1 |   .0024339   .0012934     1.88   0.060     -.000101    .004968
   > 9
```

```
       woman |    .004062   .0016103     2.52   0.012     .0009058    .007218
> 1
       _cons |   -.6891357   .1456749    -4.73   0.000    -.9746534   -.403618
> 1
-------------+----------------------------------------------------------------
> —
  crhtw2 <-  |
       crhtw1 |    .5220069   .0311675    16.75   0.000     .4609197    .583094
> 1
      injothr |    .5134734   .0803951     6.39   0.000     .3559019    .671044
> 9
     healthef |    .0047793   .0011815     4.05   0.000     .0024636     .00709
> 5
      goferw1 |    .0019679   .0008274     2.38   0.017     .0003462    .003589
> 7
       woman |    .004295   .0012088     3.55   0.000     .0019257    .006664
> 2
       _cons |   -.9960275   .0953221   -10.45   0.000    -1.182855   -.809199
> 6
-------------+----------------------------------------------------------------
> —
  crhtw3 <-  |
       crhtw1 |   -.0933081   .0209687    -4.45   0.000    -.1344061   -.052210
> 1
       crhtw2 |    .9627922   .0263552    36.53   0.000      .911137    1.01444
> 7
      injothr |    .1812566   .0426348     4.25   0.000      .097694    .264819
> 3
     healthef |    .0015631   .0006095     2.56   0.010     .0003684    .002757
> 7
       woman |    .0013004   .0006158     2.11   0.035     .0000934    .002507
> 4
       _cons |   -.3254947   .0549517    -5.92   0.000    -.4331981   -.217791
> 2
-------------+----------------------------------------------------------------
> —
  MiPTSD <-  |
       crhtw1 |   -3.434638    .720763    -4.77   0.000    -4.847307   -2.02196
> 8
       crhtw3 |    4.806976   .8517052     5.64   0.000     3.137664    6.47628
> 7
       PTSDw1 |    .0490559   .0174949     2.80   0.005     .0147667    .083345
> 2
       PTSDw2 |    .2412025   .0699062     3.45   0.001     .1041889    .378216
> 2
     healthef |     .041291   .0205475     2.01   0.044     .0010187    .081563
> 3
      fdferw1 |    .0407636   .0155779     2.62   0.009     .0102315    .071295
> 8
```

```
       _cons |   43.08689   1.525302    28.25   0.000     40.09736    46.0764
> 3
-------------+----------------------------------------------------------------
> -
  PTSDw1 <-  |
     fdferw1 |   .2452592   .0659752     3.72   0.000     .1159502    .374568
> 3
     goferw1 |  -.0772798   .0690647    -1.12   0.263    -.2126441    .058084
> 4
       _cons |   11.10247   2.405113     4.62   0.000     6.388538    15.8164
> 1
-------------+----------------------------------------------------------------
> -
  PTSDw2 <-  |
      PTSDw1 |   .0645792   .0124924     5.17   0.000     .0400945    .089063
> 9
    healthef |    .037285   .0136543     2.73   0.006     .0105231    .064046
> 8
       _cons |  -.2571743   1.047878    -0.25   0.806    -2.310978     1.7966
> 3
-------------+----------------------------------------------------------------
> -
  injothr <- |
       woman |   .0017638   .0006294     2.80   0.005     .0005301    .002997
> 4
       _cons |   .7268592   .0445836    16.30   0.000      .639477    .814241
> 3
-------------+----------------------------------------------------------------
> -
  healthef <-|
     fdferw1 |   .0772755   .0338094     2.29   0.022     .0110102    .143540
> 8
       woman |    .599946   .0421943    14.22   0.000     .5172468    .682645
> 3
       _cons |   28.69494   2.976987     9.64   0.000     22.86015    34.5297
> 3
-------------+----------------------------------------------------------------
> -
Variance     |
     e.crhtw1 |    .805311   .0598583                     .6961363    .931607
> 4
     e.crhtw2 |   .2848127     .02117                     .2462011    .329479
> 7
     e.crhtw3 |   .0727335   .0054062                     .0628731    .084140
> 2
     e.MiPTSD |   108.6123   8.073089                     93.88792    125.645
> 9
     e.PTSDw1 |   1047.579   77.86596                     905.5608    1211.87
> 1
```

```
     e.PTSDw2 |   61.88182   4.599639                      53.4926     71.586
> 7
    e.injothr |   .1316937   .0097887                     .1138402    .152347
> 1
   e.healthef |   560.0518   41.62833                     484.1266    647.884
> 4
--------------+-------------------------------------------------------------
> —
LR test of model vs. saturated: chi2(26)  =     29.77, Prob > chi2 = 0.2773

75 .
76 . set more off

77 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) ///
>    (crhtw2 -> crhtw3) (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2) ///
>    (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTSD) (injothr -> crhtw1) ///
>    (injothr -> crhtw2) (injothr -> crhtw3)  ///
>    (fdferw1 -> crhtw1) (fdferw1 -> PTSDw1) (fdferw1 -> MiPTSD) ///
>    (fdferw1 -> healthef) (goferw1 -> crhtw2) (goferw1 -> PTSDw1) ///
>    (healthef -> crhtw2) (healthef -> crhtw3) (healthef -> PTSDw2) ///
>    (healthef -> MiPTSD) (woman -> crhtw1) (woman -> crhtw2) (woman -> crhtw3
> ) ///
>    (woman -> injothr) (woman -> healthef) if gender==2, nocapslatent nolog v
> ce(cluster id)
(1 observations with missing values excluded;
 specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed:  crhtw1 crhtw2 crhtw3 MiPTSD PTSDw1 PTSDw2 injothr healthef

Exogenous variables

Observed:  fdferw1 goferw1 woman

Structural equation model                       Number of obs      =       362
Estimation method  = ml
Log pseudolikelihood= -12235.342
```

(Std. Err. adjusted for **362** clusters in id
>)

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw1 <-						
injothr	**.5609387**	**.1130148**	**4.96**	**0.000**	**.3394337**	**.782443**
fdferw1	**.0024339**	**.0013969**	**1.74**	**0.081**	**-.0003039**	**.005171**
woman	**.004062**	**.001599**	**2.54**	**0.011**	**.0009281**	**.007195**
_cons	**-.6891357**	**.1344196**	**-5.13**	**0.000**	**-.9525934**	**-.425678**
crhtw2 <-						
crhtw1	**.5220069**	**.0370723**	**14.08**	**0.000**	**.4493465**	**.594667**
injothr	**.5134734**	**.081729**	**6.28**	**0.000**	**.3532876**	**.673659**
healthef	**.0047793**	**.0011222**	**4.26**	**0.000**	**.0025799**	**.006978**
goferw1	**.0019679**	**.0009266**	**2.12**	**0.034**	**.0001519**	**.003783**
woman	**.004295**	**.001223**	**3.51**	**0.000**	**.0018979**	**.00669**
_cons	**-.9960275**	**.1069187**	**-9.32**	**0.000**	**-1.205584**	**-.786470**
crhtw3 <-						
crhtw1	**-.0933081**	**.0305184**	**-3.06**	**0.002**	**-.153123**	**-.033493**
crhtw2	**.9627922**	**.0344191**	**27.97**	**0.000**	**.8953321**	**1.03025**
injothr	**.1812566**	**.0402359**	**4.50**	**0.000**	**.1023957**	**.260117**
healthef	**.0015631**	**.0006233**	**2.51**	**0.012**	**.0003415**	**.002784**
woman	**.0013004**	**.0006373**	**2.04**	**0.041**	**.0000513**	**.002549**
_cons	**-.3254947**	**.0620016**	**-5.25**	**0.000**	**-.4470155**	**-.203973**

```
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |  -3.434638   .7940922    -4.33   0.000     -4.99103   -1.87824
> 6
       crhtw3 |   4.806976   .8024615     5.99   0.000      3.23418    6.37977
> 2
       PTSDw1 |   .0490559   .0199741     2.46   0.014     .0099075    .088204
> 4
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
     healthef |    .041291   .0172429     2.39   0.017     .0074955    .075086
> 5
      fdferw1 |   .0407636   .0186689     2.18   0.029     .0041733     .07735
> 4
        _cons |   43.08689   1.170607    36.81   0.000     40.79255    45.3812
> 4
-------------+----------------------------------------------------------------
> -
  PTSDw1 <-  |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
        _cons |   11.10247   2.074396     5.35   0.000     7.036731    15.1682
> 1
-------------+----------------------------------------------------------------
> -
  PTSDw2 <-  |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
        _cons |  -.2571743   .7522769    -0.34   0.732    -1.73161    1.21726
> 1
-------------+----------------------------------------------------------------
> -
  injothr <- |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
        _cons |   .7268592   .0527329    13.78   0.000     .6235046    .830213
> 7
-------------+----------------------------------------------------------------
> -
  healthef <-|
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
```

```
        _cons |   28.69494   3.75406     7.64   0.000     21.33712    36.0527
> 6
--------------+-------------------------------------------------------------
> —
Variance      |
     e.crhtw1 |    .805311   .0394188                      .7316418    .886397
> 9
     e.crhtw2 |   .2848127   .0288223                      .2335715    .347295
> 1
     e.crhtw3 |   .0727335    .010747                      .0544455    .097164
> 3
     e.MiPTSD |   108.6123   11.59165                      88.11189    133.882
> 4
     e.PTSDw1 |   1047.579   90.75543                       883.984    1241.45
> 1
     e.PTSDw2 |   61.88182   25.07611                      27.96625    136.927
> 9
    e.injothr |   .1316937   .0127862                      .1088734    .159297
> 3
   e.healthef |   560.0518   53.47957                      464.4582    675.320
> 3
--------------+-------------------------------------------------------------
> —
```

```
78 . estat mindices

   Modification indices
```

	MI	df	P>MI	EPC	Standard EPC
Structural					
PTSDw2 <-					
crhtw3	**4.729**	**1**	**0.03**	**.8210147**	**.0879294**
injothr	**9.809**	**1**	**0.00**	**2.026653**	**.0901588**
injothr <-					
crhtw1	**7.511**	**1**	**0.01**	**.5346121**	**1.371234**
crhtw2	**6.538**	**1**	**0.01**	**.2832701**	**.6669691**
crhtw3	**4.565**	**1**	**0.03**	**.2185984**	**.526261**
MiPTSD	**8.189**	**1**	**0.00**	**.0048963**	**.1597648**
PTSDw2	**11.293**	**1**	**0.00**	**.0043023**	**.0967094**
fdferw1	**7.511**	**1**	**0.01**	**.0013012**	**.1341532**
goferw1	**14.063**	**1**	**0.00**	**.001774**	**.1747199**
Covariance					
e.MiPTSD					
e.injothr	**4.037**	**1**	**0.04**	**.3994816**	**.105627**

e.PTSDw2 e.injothr	**9.021**	**1**	**0.00**	**.2556107**	**.0895396**

EPC = expected parameter change

```
79 . estat ic
```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	**362**	.	**-12235.34**	**42**	**24554.68**	**24718.13**

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

```
80 . estat gof
Note: model was fit with vce(cluster); only stats(residuals) valid.

81 . estat framework
(model contains no latent variables)

Endogenous variables on endogenous variables

                 | observed
>
            Beta |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1     P
> TSDw2    injothr   healthef
    -------------+------------------------------------------------------------
> ----------------------------
    observed     |
>
          crhtw1 |          0          0          0          0          0
>     0   .5609387           0
          crhtw2 |  .5220069          0          0          0          0
>     0   .5134734   .0047793
          crhtw3 | -.0933081   .9627922          0          0          0
>     0   .1812566   .0015631
          MiPTSD | -3.434638          0   4.806976          0   .0490559   .24
> 12025           0    .041291
          PTSDw1 |          0          0          0          0          0
>     0           0           0
          PTSDw2 |          0          0          0          0   .0645792
>     0           0    .037285
         injothr |          0          0          0          0          0
>     0           0           0
        healthef |          0          0          0          0          0
>     0           0           0
    -------------+------------------------------------------------------------
> ----------------------------
```

Exogenous variables on endogenous variables

	observed		
Gamma	fdferw1	goferw1	woman
observed			
crhtw1	.0024339	0	.004062
crhtw2	0	.0019679	.004295
crhtw3	0	0	.0013004
MiPTSD	.0407636	0	0
PTSDw1	.2452592	-.0772798	0
PTSDw2	0	0	0
injothr	0	0	.0017638
healthef	.0772755	0	.599946

Covariances of error variables

	observed					
Psi	e.crhtw1	e.crhtw2	e.crhtw3	e.MiPTSD	e.PTSDw1	e.PTSDw2
observed						
e.crhtw1	.805311					
e.crhtw2	0	.2848127				
e.crhtw3	0	0	.0727335			
e.MiPTSD	0	0	0	108.6123		
e.PTSDw1	0	0	0	0	1047.579	
e.PTSDw2	0	0	0	0	0	61.88182
e.injothr	0	0	0	0	0	0
e.healthef	0	0	0	0	0	0

Psi	e.injothr	e.healt~f				
observed						
e.injothr	.1316937					
e.healthef	0	560.0518				

Intercepts of endogenous variables

```
                    | observed
>
             alpha  |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2     injothr   healthef
    ----------------+-------------------------------------------------------------
> ------------------------------
             _cons  | -.6891357  -.9960275  -.3254947   43.08689   11.10247  -.25
> 71743    .7268592   28.69494
    ----------------+-------------------------------------------------------------
> ------------------------------
```

Covariances of exogenous variables

```
                    | observed
             Phi    |   fdferw1    goferw1      woman
    ----------------+---------------------------------
    observed        |
         fdferw1    |  1430.173
         goferw1    |  999.4126   1305.084
           woman    |  265.4159   317.3879   918.2426
    ----------------+---------------------------------
```

Means of exogenous variables

```
                    | observed
           kappa    |   fdferw1    goferw1      woman
    ----------------+---------------------------------
            mean    |  37.43094   29.57459    64.0221
    ----------------+---------------------------------
```

```
82 . estat residuals
```

Residuals of observed variables

Mean residuals

```
                    |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2     injothr   healthef    fdferw1    goferw1      woman
    ----------------+-------------------------------------------------------------
> ------------------------------------------------------------
               raw  |     0.000      0.000      0.000     -0.000     -0.000
> 0.000      0.000     -0.000      0.000      0.000      0.000
    ----------------+-------------------------------------------------------------
> ------------------------------------------------------------
```

Covariance residuals

```
                    |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2     injothr |   healthef    fdferw1    goferw1      woman
----------------------+-------------------------------------------------------------
> ----------------------------------------------------------
          crhtw1 |     0.005
>
          crhtw2 |     0.008      0.013
>
          crhtw3 |     0.009      0.013      0.014
>
          MiPTSD |     0.223      0.479      0.271      1.474
>
          PTSDw1 |     0.397      0.430     -0.005      0.687      0.000
>
          PTSDw2 |     0.516      0.456      0.535      1.504      1.538
> 0.199
         injothr |     0.004      0.008      0.007      0.501      0.409
> 0.306      0.000
        healthef |     0.338      0.309      0.312      3.005     41.259
> 2.664      0.254     -0.000
         fdferw1 |     0.988      1.875      2.266     10.280      0.000      1
> 1.530      1.761     -0.000      0.000
         goferw1 |     0.936      1.583      2.447      2.045      0.000      -
> 0.145      2.121      1.069      0.000      0.000
           woman |     0.000      0.000     -0.000    -11.935     14.587
> 9.359      0.000     -0.000      0.000      0.000      0.000
----------------------+-------------------------------------------------------------
> ----------------------------------------------------------

83 . estat teffects

Direct effects
                                            (Std. Err. adjusted for 362 clusters in id
> )
-------------------+-----------------------------------------------------------------
> -
                   |             Robust
                   |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
> ]
-------------------+-----------------------------------------------------------------
> -
Structural         |
  crhtw1 <-        |
      injothr      |   .5609387   .1130148     4.96   0.000     .3394337    .782443
> 7
      fdferw1      |   .0024339   .0013969     1.74   0.081    -.0003039    .005171
> 8
        woman      |    .004062    .001599     2.54   0.011     .0009281    .007195
```

```
> 9
-------------+----------------------------------------------------------------
> -
  crhtw2 <-  |
       crhtw1 |   .5220069   .0370723    14.08   0.000     .4493465    .594667
> 3
       injothr |   .5134734    .081729     6.28   0.000     .3532876    .673659
> 2
      healthef |   .0047793   .0011222     4.26   0.000     .0025799    .006978
> 7
       fdferw1 |          0  (no path)
       goferw1 |   .0019679   .0009266     2.12   0.034     .0001519    .003783
> 9
         woman |    .004295    .001223     3.51   0.000     .0018979     .00669
> 2
-------------+----------------------------------------------------------------
> -
  crhtw3 <-  |
       crhtw1 |  -.0933081   .0305184    -3.06   0.002     -.153123   -.033493
> 2
       crhtw2 |   .9627922   .0344191    27.97   0.000     .8953321    1.03025
> 2
       injothr |   .1812566   .0402359     4.50   0.000     .1023957    .260117
> 6
      healthef |   .0015631   .0006233     2.51   0.012     .0003415    .002784
> 7
       fdferw1 |          0  (no path)
       goferw1 |          0  (no path)
         woman |   .0013004   .0006373     2.04   0.041     .0000513    .002549
> 5
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |  -3.434638   .7940922    -4.33   0.000     -4.99103   -1.87824
> 6
       crhtw2 |          0  (no path)
       crhtw3 |   4.806976   .8024615     5.99   0.000      3.23418    6.37977
> 2
       PTSDw1 |   .0490559   .0199741     2.46   0.014     .0099075    .088204
> 4
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
       injothr |          0  (no path)
      healthef |    .041291   .0172429     2.39   0.017     .0074955    .075086
> 5
       fdferw1 |   .0407636   .0186689     2.18   0.029     .0041733     .07735
> 4
       goferw1 |          0  (no path)
         woman |          0  (no path)
```

```
-------------+----------------------------------------------------------------
> ─
  PTSDw1 <-  |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
-------------+----------------------------------------------------------------
> ─
  PTSDw2 <-  |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
      fdferw1 |          0  (no path)
      goferw1 |          0  (no path)
        woman |          0  (no path)
-------------+----------------------------------------------------------------
> ─
  injothr <- |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
-------------+----------------------------------------------------------------
> ─
  healthef <-|
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
-------------+----------------------------------------------------------------
> ─

Indirect effects
                                       (Std. Err. adjusted for 362 clusters in id
> )
-------------+----------------------------------------------------------------
> ─
             |               Robust
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
> ]
-------------+----------------------------------------------------------------
> ─
Structural   |
  crhtw1 <-  |
      injothr |          0  (no path)
      fdferw1 |          0  (no path)
        woman |   .0009894   .0004207     2.35   0.019     .0001649    .001813
> 8
```

```
-------------+----------------------------------------------------------------
> -
  crhtw2 <-  |
       crhtw1 |          0  (no path)
      injothr |   .2928139   .0589945     4.96   0.000     .1771867     .40844
> 1
     healthef |          0  (no path)
       fdferw1 |   .0016399   .0007492     2.19   0.029     .0001714    .003108
> 3
       goferw1 |          0  (no path)
         woman |   .0064098   .0011566     5.54   0.000     .0041429    .008676
> 7
-------------+----------------------------------------------------------------
> -
  crhtw3 <-  |
       crhtw1 |   .5025842   .0356929    14.08   0.000     .4326273     .57254
> 1
       crhtw2 |          0  (no path)
      injothr |    .723947   .0920954     7.86   0.000     .5434434    .904450
> 6
     healthef |   .0046015   .0010804     4.26   0.000     .0024839     .00671
> 9
       fdferw1 |   .0014725   .0006176     2.38   0.017     .0002621    .002682
> 9
       goferw1 |   .0018947   .0009096     2.08   0.037     .0001119    .003677
> 5
         woman |   .0110926   .0014245     7.79   0.000     .0083007    .013884
> 5
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |    1.96738     .19331    10.18   0.000       1.5885    2.34626
> 1
       crhtw2 |   4.628119   .1654516    27.97   0.000      4.30384    4.95239
> 8
       crhtw3 |          0  (no path)
       PTSDw1 |   .0155767   .0036708     4.24   0.000     .0083821    .022771
> 2
       PTSDw2 |          0  (no path)
      injothr |   2.424671   .4590647     5.28   0.000      1.52492    3.32442
> 1
     healthef |   .0386261   .0067619     5.71   0.000     .0253731    .051879
> 2
       fdferw1 |   .0184562   .0072519     2.55   0.011     .0042427    .032669
> 6
       goferw1 |    .004113   .0073516     0.56   0.576    -.0102959    .018521
> 9
         woman |    .072391   .0130401     5.55   0.000     .0468329    .097949
> 2
```

```
-------------+----------------------------------------------------------------
> -
  PTSDw1 <-  |
      fdferw1|          0  (no path)
      goferw1|          0  (no path)
-------------+----------------------------------------------------------------
> -
  PTSDw2 <-  |
       PTSDw1|          0  (no path)
     healthef|          0  (no path)
      fdferw1|  .0187199   .0065374     2.86   0.004     .0059068    .031532
> 9
      goferw1| -.0049907   .0056045    -0.89   0.373    -.0159753    .005993
> 9
        woman|   .022369   .0072657     3.08   0.002     .0081285    .036609
> 4
-------------+----------------------------------------------------------------
> -
  injothr <- |
       woman|          0  (no path)
-------------+----------------------------------------------------------------
> -
  healthef <-|
      fdferw1|          0  (no path)
        woman|          0  (no path)
-------------+----------------------------------------------------------------
> -


Total effects
                                    (Std. Err. adjusted for 362 clusters in id
> )
-------------+----------------------------------------------------------------
> -
             |               Robust
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
> ]
-------------+----------------------------------------------------------------
> -
Structural   |
  crhtw1 <-  |
      injothr|  .5609387   .1130148     4.96   0.000     .3394337    .782443
> 7
      fdferw1|  .0024339   .0013969     1.74   0.081    -.0003039    .005171
> 8
        woman|  .0050513   .0016367     3.09   0.002     .0018435    .008259
> 2
-------------+----------------------------------------------------------------
> -
```

```
  crhtw2 <-   |
       crhtw1 |   .5220069   .0370723    14.08   0.000     .4493465    .594667
> 3
      injothr |   .8062872   .1017796     7.92   0.000      .606803    1.00577
> 1
     healthef |   .0047793   .0011222     4.26   0.000     .0025799    .006978
> 7
      fdferw1 |   .0016399   .0007492     2.19   0.029     .0001714    .003108
> 3
      goferw1 |   .0019679   .0009266     2.12   0.034     .0001519    .003783
> 9
        woman |   .0107048   .0015428     6.94   0.000     .0076809    .013728
> 6
  ------------+----------------------------------------------------------------
> -
  crhtw3 <-   |
       crhtw1 |   .4092761   .0402145    10.18   0.000     .3304572     .48809
> 5
       crhtw2 |   .9627922   .0344191    27.97   0.000     .8953321    1.03025
> 2
      injothr |   .9052036   .1003312     9.02   0.000     .7085581    1.10184
> 9
     healthef |   .0061646   .0012948     4.76   0.000     .0036269    .008702
> 3
      fdferw1 |   .0014725   .0006176     2.38   0.017     .0002621    .002682
> 9
      goferw1 |   .0018947   .0009096     2.08   0.037     .0001119    .003677
> 5
        woman |    .012393   .0015199     8.15   0.000      .009414    .015371
> 9
  ------------+----------------------------------------------------------------
> -
  MiPTSD <-   |
       crhtw1 |  -1.467257   .8140821    -1.80   0.071    -3.062829    .128314
> 2
       crhtw2 |   4.628119   .1654516    27.97   0.000      4.30384    4.95239
> 8
       crhtw3 |   4.806976   .8024615     5.99   0.000      3.23418    6.37977
> 2
       PTSDw1 |   .0646326   .0199657     3.24   0.001     .0255005    .103764
> 7
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
      injothr |   2.424671   .4590647     5.28   0.000      1.52492    3.32442
> 1
     healthef |   .0799171   .0179447     4.45   0.000     .0447461    .115088
> 2
      fdferw1 |   .0592198   .0183489     3.23   0.001     .0232567     .09518
> 3
```

```
      goferw1 |    .004113   .0073516     0.56   0.576    -.0102959    .018521
> 9
        woman |    .072391   .0130401     5.55   0.000     .0468329    .097949
> 2
-------------+----------------------------------------------------------------
> -
  PTSDw1 <- |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
-------------+----------------------------------------------------------------
> -
  PTSDw2 <- |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
      fdferw1 |   .0187199   .0065374     2.86   0.004     .0059068    .031532
> 9
      goferw1 |  -.0049907   .0056045    -0.89   0.373    -.0159753    .005993
> 9
        woman |    .022369   .0072657     3.08   0.002     .0081285    .036609
> 4
-------------+----------------------------------------------------------------
> -
  injothr <- |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
-------------+----------------------------------------------------------------
> -
  healthef <- |
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
-------------+----------------------------------------------------------------
> -
```

```
84 .
85 .
86 . title "h6 Common perceptions of Chornobyl health" "related risk and PTSD for
   >  females"

   ********************************************************************************
   > *
   ********************************************************************************
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****             h6 Common perceptions of Chornobyl health                ****
   > *
   *****                 related risk and PTSD for females                    ****
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****                                        29 Jul 2012    14:48:53  ****
   > *
   ********************************************************************************
   > *
   ********************************************************************************
   > *

87 . title4 "path diagram for this model is called TrimFemaleCRTHPTSD"
   ------------------------------------------------------------------------------
   path diagram for this model is called TrimFemaleCRTHPTSD
   ------------------------------------------------------------------------------

88 . title4 "This is the cluster robust version of the above program"
   ------------------------------------------------------------------------------
   This is the cluster robust version of the above program
   ------------------------------------------------------------------------------
```

```
89 . set more off

90 .    sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) (crhtw2 -> c
   > rhtw3)  ///
   >    (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTS
   > D) ///
   >    (injothr -> crhtw1) (injothr -> crhtw2) (injothr -> crhtw3)(fdferw1 -> cr
   > htw1) ///
   >    (fdferw1 -> PTSDw1) (fdferw1 -> MiPTSD) (fdferw1 -> healthef) (goferw1 ->
   >  crhtw2) ///
   >    (goferw1 -> PTSDw1) (healthef -> crhtw2) (healthef -> crhtw3) (healthef -
   > > PTSDw2) ///
   >    (healthef -> MiPTSD) (woman -> crhtw1) (woman -> crhtw2) (woman -> crhtw3
   > ) ///
   >    (woman -> injothr) (woman -> healthef) if gender==2, nocapslatent nolog v
   > ce(cluster id)
   (1 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

   Endogenous variables

   Observed:  crhtw1 crhtw2 crhtw3 MiPTSD PTSDw1 PTSDw2 injothr healthef

   Exogenous variables

   Observed:  fdferw1 goferw1 woman

   Structural equation model                       Number of obs      =       362
   Estimation method  = ml
   Log pseudolikelihood= -12235.342

                                          (Std. Err. adjusted for 362 clusters in id
   > )
   ------------------------------------------------------------------------------
   > -
                  |               Robust
                  |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
   > ]
   ---------------+--------------------------------------------------------------
   > -
   Structural     |
     crhtw1 <-    |
         injothr  |   .5609387   .1130148     4.96   0.000     .3394337    .782443
   > 7
         fdferw1  |   .0024339   .0013969     1.74   0.081    -.0003039    .005171
   > 8
            woman |    .004062    .001599     2.54   0.011     .0009281    .007195
   > 9
            _cons |  -.6891357   .1344196    -5.13   0.000    -.9525934   -.425678
```

```
> 1
-------------+----------------------------------------------------------------
> -
  crhtw2 <-  |
       crhtw1 |   .5220069   .0370723    14.08   0.000     .4493465    .594667
> 3
      injothr |   .5134734    .081729     6.28   0.000     .3532876    .673659
> 2
     healthef |   .0047793   .0011222     4.26   0.000     .0025799    .006978
> 7
      goferw1 |   .0019679   .0009266     2.12   0.034     .0001519    .003783
> 9
        woman |    .004295    .001223     3.51   0.000     .0018979     .00669
> 2
        _cons |  -.9960275   .1069187    -9.32   0.000    -1.205584   -.786470
> 8
-------------+----------------------------------------------------------------
> -
  crhtw3 <-  |
       crhtw1 |  -.0933081   .0305184    -3.06   0.002     -.153123   -.033493
> 2
       crhtw2 |   .9627922   .0344191    27.97   0.000     .8953321    1.03025
> 2
      injothr |   .1812566   .0402359     4.50   0.000     .1023957    .260117
> 6
     healthef |   .0015631   .0006233     2.51   0.012     .0003415    .002784
> 7
        woman |   .0013004   .0006373     2.04   0.041     .0000513    .002549
> 5
        _cons |  -.3254947   .0620016    -5.25   0.000    -.4470155   -.203973
> 8
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |  -3.434638   .7940922    -4.33   0.000    -4.99103   -1.87824
> 6
       crhtw3 |   4.806976   .8024615     5.99   0.000     3.23418    6.37977
> 2
       PTSDw1 |   .0490559   .0199741     2.46   0.014     .0099075    .088204
> 4
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
     healthef |    .041291   .0172429     2.39   0.017     .0074955    .075086
> 5
      fdferw1 |   .0407636   .0186689     2.18   0.029     .0041733     .07735
> 4
        _cons |   43.08689   1.170607    36.81   0.000     40.79255    45.3812
> 4
-------------+----------------------------------------------------------------
```

```
> —
  PTSDw1 <-  |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
        _cons |   11.10247   2.074396     5.35   0.000     7.036731    15.1682
> 1
  ------------+----------------------------------------------------------------
> —
  PTSDw2 <-  |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
        _cons |  -.2571743   .7522769    -0.34   0.732    -1.73161    1.21726
> 1
  ------------+----------------------------------------------------------------
> —
  injothr <-  |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
        _cons |   .7268592   .0527329    13.78   0.000     .6235046    .830213
> 7
  ------------+----------------------------------------------------------------
> —
  healthef <-  |
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
        _cons |   28.69494    3.75406     7.64   0.000     21.33712    36.0527
> 6
--------------+----------------------------------------------------------------
> —
Variance     |
     e.crhtw1 |    .805311   .0394188                     .7316418    .886397
> 9
     e.crhtw2 |   .2848127   .0288223                     .2335715    .347295
> 1
     e.crhtw3 |   .0727335    .010747                     .0544455    .097164
> 3
     e.MiPTSD |   108.6123   11.59165                     88.11189    133.882
> 4
     e.PTSDw1 |   1047.579   90.75543                      883.984    1241.45
> 1
     e.PTSDw2 |   61.88182   25.07611                     27.96625    136.927
> 9
    e.injothr |   .1316937   .0127862                     .1088734    .159297
```

```
> 3
   e.healthef |   560.0518   53.47957                      464.4582    675.320
> 3
--------------+---------------------------------------------------------------
> —
```

```
91 . estat mindices
```

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
PTSDw2 <-					
crhtw3	**4.729**	**1**	**0.03**	**.8210147**	**.0879294**
injothr	**9.809**	**1**	**0.00**	**2.026653**	**.0901588**
injothr <-					
crhtw1	**7.511**	**1**	**0.01**	**.5346121**	**1.371234**
crhtw2	**6.538**	**1**	**0.01**	**.2832701**	**.6669691**
crhtw3	**4.565**	**1**	**0.03**	**.2185984**	**.526261**
MiPTSD	**8.189**	**1**	**0.00**	**.0048963**	**.1597648**
PTSDw2	**11.293**	**1**	**0.00**	**.0043023**	**.0967094**
fdferw1	**7.511**	**1**	**0.01**	**.0013012**	**.1341532**
goferw1	**14.063**	**1**	**0.00**	**.001774**	**.1747199**
Covariance					
e.MiPTSD					
e.injothr	**4.037**	**1**	**0.04**	**.3994816**	**.105627**
e.PTSDw2					
e.injothr	**9.021**	**1**	**0.00**	**.2556107**	**.0895396**

EPC = expected parameter change

```
92 . estat ic
```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-12235.34	42	24554.68	24718.13

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

```
93 . estat gof
Note: model was fit with vce(cluster); only stats(residuals) valid.

94 . estat framework
(model contains no latent variables)

Endogenous variables on endogenous variables

                 | observed
>
            Beta |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2    injothr   healthef
    -------------+------------------------------------------------------------
> -----------------------------
    observed     |
>
          crhtw1 |          0          0          0          0          0
>     0   .5609387           0
          crhtw2 |  .5220069          0          0          0          0
>     0   .5134734   .0047793
          crhtw3 | -.0933081   .9627922          0          0          0
>     0   .1812566   .0015631
          MiPTSD | -3.434638          0   4.806976          0   .0490559   .24
> 12025           0    .041291
          PTSDw1 |          0          0          0          0          0
>     0           0           0
          PTSDw2 |          0          0          0          0   .0645792
>     0           0    .037285
         injothr |          0          0          0          0          0
>     0           0           0
        healthef |          0          0          0          0          0
>     0           0           0
    -------------+------------------------------------------------------------
> -----------------------------

Exogenous variables on endogenous variables
```

Gamma	observed fdferw1	goferw1	woman
observed			
crhtw1	.0024339	0	.004062
crhtw2	0	.0019679	.004295
crhtw3	0	0	.0013004
MiPTSD	.0407636	0	0
PTSDw1	.2452592	-.0772798	0
PTSDw2	0	0	0
injothr	0	0	.0017638
healthef	.0772755	0	.599946

Covariances of error variables

Psi	observed e.crhtw1	e.crhtw2	e.crhtw3	e.MiPTSD	e.PTSDw1	e.PTSDw2	e.injothr	e.healthef
observed								
e.crhtw1	.805311							
e.crhtw2	0	.2848127						
e.crhtw3	0	0	.0727335					
e.MiPTSD	0	0	0	108.6123				
e.PTSDw1	0	0	0	0	1047.579			
e.PTSDw2	0	0	0	0	0	61.88182		
e.injothr	0	0	0	0	0	0	.1316937	
e.healthef	0	0	0	0	0	0	0	560.0518

Intercepts of endogenous variables

```
                  | observed
>
           alpha  |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2    injothr   healthef
    ──────────────┼──────────────────────────────────────────────────────────────
> ──────────────────────────
           _cons  | -.6891357  -.9960275  -.3254947   43.08689   11.10247  -.25
> 71743   .7268592   28.69494
    ──────────────┴──────────────────────────────────────────────────────────────
> ──────────────────────────
```

Covariances of exogenous variables

	observed		
Phi	fdferw1	goferw1	woman
observed			
fdferw1	**1430.173**		
goferw1	**999.4126**	**1305.084**	
woman	**265.4159**	**317.3879**	**918.2426**

Means of exogenous variables

	observed		
kappa	fdferw1	goferw1	woman
mean	**37.43094**	**29.57459**	**64.0221**

```
95 . estat residuals
```

Residuals of observed variables

Mean residuals

```
                  |    crhtw1     crhtw2     crhtw3     MiPTSD     PTSDw1      P
> TSDw2    injothr   healthef    fdferw1    goferw1      woman
    ──────────────┼──────────────────────────────────────────────────────────────
> ──────────────────────────────────────────────────────
             raw  |     0.000      0.000      0.000     -0.000     -0.000
> 0.000      0.000     -0.000      0.000      0.000      0.000
    ──────────────┴──────────────────────────────────────────────────────────────
> ──────────────────────────────────────────────────────
```

Covariance residuals

```
                    |     crhtw1      crhtw2      crhtw3      MiPTSD      PTSDw1      P
> TSDw2     injothr |    healthef     fdferw1     goferw1       woman
-------------------+-------------------------------------------------------------
> ------------------------------------------------------------
           crhtw1 |      0.005
>
           crhtw2 |      0.008       0.013
>
           crhtw3 |      0.009       0.013       0.014
>
           MiPTSD |      0.223       0.479       0.271       1.474
>
           PTSDw1 |      0.397       0.430      -0.005       0.687       0.000
>
           PTSDw2 |      0.516       0.456       0.535       1.504       1.538
> 0.199
          injothr |      0.004       0.008       0.007       0.501       0.409
> 0.306       0.000
         healthef |      0.338       0.309       0.312       3.005      41.259
> 2.664       0.254      -0.000
          fdferw1 |      0.988       1.875       2.266      10.280       0.000      1
> 1.530       1.761      -0.000       0.000
          goferw1 |      0.936       1.583       2.447       2.045       0.000      -
> 0.145       2.121       1.069       0.000       0.000
            woman |      0.000       0.000      -0.000     -11.935      14.587
> 9.359       0.000      -0.000       0.000       0.000       0.000
-------------------+-------------------------------------------------------------
> ------------------------------------------------------------

96 . estat teffects


Direct effects
                                             (Std. Err. adjusted for 362 clusters in id
> )
-------------------+-----------------------------------------------------------------
> -
                   |               Robust
                   |      Coef.   Std. Err.       z    P>|z|     [95% Conf. Interval
> ]
-------------------+-----------------------------------------------------------------
> -
Structural         |
  crhtw1 <-        |
       injothr     |   .5609387   .1130148     4.96   0.000     .3394337    .782443
> 7
       fdferw1     |   .0024339   .0013969     1.74   0.081    -.0003039    .005171
> 8
         woman     |    .004062    .001599     2.54   0.011     .0009281    .007195
```

```
> 9
-------------+----------------------------------------------------------------
> -
  crhtw2 <-  |
       crhtw1 |   .5220069   .0370723    14.08   0.000     .4493465    .594667
> 3
      injothr |   .5134734    .081729     6.28   0.000     .3532876    .673659
> 2
     healthef |   .0047793   .0011222     4.26   0.000     .0025799    .006978
> 7
      fdferw1 |          0  (no path)
      goferw1 |   .0019679   .0009266     2.12   0.034     .0001519    .003783
> 9
        woman |    .004295    .001223     3.51   0.000     .0018979     .00669
> 2
-------------+----------------------------------------------------------------
> -
  crhtw3 <-  |
       crhtw1 |  -.0933081   .0305184    -3.06   0.002     -.153123   -.033493
> 2
       crhtw2 |   .9627922   .0344191    27.97   0.000     .8953321    1.03025
> 2
      injothr |   .1812566   .0402359     4.50   0.000     .1023957    .260117
> 6
     healthef |   .0015631   .0006233     2.51   0.012     .0003415    .002784
> 7
      fdferw1 |          0  (no path)
      goferw1 |          0  (no path)
        woman |   .0013004   .0006373     2.04   0.041     .0000513    .002549
> 5
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |  -3.434638   .7940922    -4.33   0.000     -4.99103   -1.87824
> 6
       crhtw2 |          0  (no path)
       crhtw3 |   4.806976   .8024615     5.99   0.000      3.23418    6.37977
> 2
       PTSDw1 |   .0490559   .0199741     2.46   0.014     .0099075    .088204
> 4
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
      injothr |          0  (no path)
     healthef |    .041291   .0172429     2.39   0.017     .0074955    .075086
> 5
      fdferw1 |   .0407636   .0186689     2.18   0.029     .0041733     .07735
> 4
      goferw1 |          0  (no path)
        woman |          0  (no path)
```

```
-------------+----------------------------------------------------------------
> -
  PTSDw1 <-  |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
-------------+----------------------------------------------------------------
> -
  PTSDw2 <-  |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
      fdferw1 |          0  (no path)
      goferw1 |          0  (no path)
        woman |          0  (no path)
-------------+----------------------------------------------------------------
> -
  injothr <- |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
-------------+----------------------------------------------------------------
> -
  healthef <-|
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
-------------+----------------------------------------------------------------
> -


Indirect effects
                                    (Std. Err. adjusted for 362 clusters in id
> )
-------------+----------------------------------------------------------------
> -
             |               Robust
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
> ]
-------------+----------------------------------------------------------------
> -
Structural   |
  crhtw1 <-  |
      injothr |          0  (no path)
      fdferw1 |          0  (no path)
        woman |   .0009894   .0004207     2.35   0.019     .0001649    .001813
> 8
```

```
-------------+----------------------------------------------------------------
> -
  crhtw2 <-  |
       crhtw1 |          0  (no path)
      injothr |   .2928139   .0589945     4.96   0.000     .1771867     .40844
> 1
     healthef |          0  (no path)
       fdferw1 |   .0016399   .0007492     2.19   0.029     .0001714    .003108
> 3
       goferw1 |          0  (no path)
         woman |   .0064098   .0011566     5.54   0.000     .0041429    .008676
> 7
-------------+----------------------------------------------------------------
> -
  crhtw3 <-  |
       crhtw1 |   .5025842   .0356929    14.08   0.000     .4326273     .57254
> 1
       crhtw2 |          0  (no path)
      injothr |    .723947   .0920954     7.86   0.000     .5434434    .904450
> 6
     healthef |   .0046015   .0010804     4.26   0.000     .0024839     .00671
> 9
       fdferw1 |   .0014725   .0006176     2.38   0.017     .0002621    .002682
> 9
       goferw1 |   .0018947   .0009096     2.08   0.037     .0001119    .003677
> 5
         woman |   .0110926   .0014245     7.79   0.000     .0083007    .013884
> 5
-------------+----------------------------------------------------------------
> -
  MiPTSD <-  |
       crhtw1 |    1.96738     .19331    10.18   0.000       1.5885    2.34626
> 1
       crhtw2 |   4.628119   .1654516    27.97   0.000      4.30384    4.95239
> 8
       crhtw3 |          0  (no path)
       PTSDw1 |   .0155767   .0036708     4.24   0.000     .0083821    .022771
> 2
       PTSDw2 |          0  (no path)
      injothr |   2.424671   .4590647     5.28   0.000      1.52492    3.32442
> 1
     healthef |   .0386261   .0067619     5.71   0.000     .0253731    .051879
> 2
       fdferw1 |   .0184562   .0072519     2.55   0.011     .0042427    .032669
> 6
       goferw1 |    .004113   .0073516     0.56   0.576    -.0102959    .018521
> 9
         woman |    .072391   .0130401     5.55   0.000     .0468329    .097949
> 2
```

```
-------------+----------------------------------------------------------------
> -
  PTSDw1 <-  |
      fdferw1|          0  (no path)
      goferw1|          0  (no path)
-------------+----------------------------------------------------------------
> -
  PTSDw2 <-  |
       PTSDw1|          0  (no path)
     healthef|          0  (no path)
      fdferw1|  .0187199   .0065374     2.86   0.004     .0059068    .031532
> 9
      goferw1|  -.0049907   .0056045    -0.89   0.373    -.0159753    .005993
> 9
        woman|   .022369   .0072657     3.08   0.002     .0081285    .036609
> 4
-------------+----------------------------------------------------------------
> -
  injothr <- |
       woman|          0  (no path)
-------------+----------------------------------------------------------------
> -
  healthef <-|
      fdferw1|          0  (no path)
        woman|          0  (no path)
-------------+----------------------------------------------------------------
> -

Total effects
                                    (Std. Err. adjusted for 362 clusters in id
> )
-------------+----------------------------------------------------------------
> -
             |               Robust
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval
> ]
-------------+----------------------------------------------------------------
> -
Structural   |
  crhtw1 <-  |
      injothr|  .5609387   .1130148     4.96   0.000     .3394337    .782443
> 7
      fdferw1|  .0024339   .0013969     1.74   0.081    -.0003039    .005171
> 8
        woman|  .0050513   .0016367     3.09   0.002     .0018435    .008259
> 2
-------------+----------------------------------------------------------------
> -
```

```
  crhtw2 <-   |
       crhtw1 |   .5220069   .0370723    14.08   0.000     .4493465    .594667
> 3
      injothr |   .8062872   .1017796     7.92   0.000      .606803    1.00577
> 1
     healthef |   .0047793   .0011222     4.26   0.000     .0025799    .006978
> 7
      fdferw1 |   .0016399   .0007492     2.19   0.029     .0001714    .003108
> 3
      goferw1 |   .0019679   .0009266     2.12   0.034     .0001519    .003783
> 9
        woman |   .0107048   .0015428     6.94   0.000     .0076809    .013728
> 6
  ------------+----------------------------------------------------------------
> -
  crhtw3 <-   |
       crhtw1 |   .4092761   .0402145    10.18   0.000     .3304572     .48809
> 5
       crhtw2 |   .9627922   .0344191    27.97   0.000     .8953321    1.03025
> 2
      injothr |   .9052036   .1003312     9.02   0.000     .7085581    1.10184
> 9
     healthef |   .0061646   .0012948     4.76   0.000     .0036269    .008702
> 3
      fdferw1 |   .0014725   .0006176     2.38   0.017     .0002621    .002682
> 9
      goferw1 |   .0018947   .0009096     2.08   0.037     .0001119    .003677
> 5
        woman |    .012393   .0015199     8.15   0.000      .009414    .015371
> 9
  ------------+----------------------------------------------------------------
> -
  MiPTSD <-   |
       crhtw1 |  -1.467257   .8140821    -1.80   0.071    -3.062829    .128314
> 2
       crhtw2 |   4.628119   .1654516    27.97   0.000      4.30384    4.95239
> 8
       crhtw3 |   4.806976   .8024615     5.99   0.000      3.23418    6.37977
> 2
       PTSDw1 |   .0646326   .0199657     3.24   0.001     .0255005    .103764
> 7
       PTSDw2 |   .2412025   .0905643     2.66   0.008     .0636997    .418705
> 4
      injothr |   2.424671   .4590647     5.28   0.000      1.52492    3.32442
> 1
     healthef |   .0799171   .0179447     4.45   0.000     .0447461    .115088
> 2
      fdferw1 |   .0592198   .0183489     3.23   0.001     .0232567     .09518
> 3
```

```
      goferw1 |    .004113   .0073516     0.56   0.576    -.0102959    .018521
> 9
        woman |    .072391   .0130401     5.55   0.000     .0468329    .097949
> 2
------------+------------------------------------------------------------------
> -
  PTSDw1 <- |
      fdferw1 |   .2452592   .0771449     3.18   0.001     .0940579    .396460
> 6
      goferw1 |  -.0772798   .0844018    -0.92   0.360    -.2427044    .088144
> 7
------------+------------------------------------------------------------------
> -
  PTSDw2 <- |
       PTSDw1 |   .0645792   .0152186     4.24   0.000     .0347513     .09440
> 7
     healthef |    .037285   .0117698     3.17   0.002     .0142165    .060353
> 4
      fdferw1 |   .0187199   .0065374     2.86   0.004     .0059068    .031532
> 9
      goferw1 |  -.0049907   .0056045    -0.89   0.373    -.0159753    .005993
> 9
        woman |    .022369   .0072657     3.08   0.002     .0081285    .036609
> 4
------------+------------------------------------------------------------------
> -
  injothr <- |
        woman |   .0017638   .0007074     2.49   0.013     .0003773    .003150
> 2
------------+------------------------------------------------------------------
> -
  healthef <- |
      fdferw1 |   .0772755   .0352267     2.19   0.028     .0082325    .146318
> 5
        woman |    .599946    .049076    12.22   0.000     .5037588    .696133
> 2
------------+------------------------------------------------------------------
> -
```

```
 97 .
 98 .
 99 . // reduced female path
100 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> PTSDw1) (crhtw1 -> PTSD
    > w2) (crhtw1 -> MiPTSD) (crhtw2 -> crhtw3) ///
    >  (crhtw2 -> PTSDw2) (crhtw2 -> MiPTSD) (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2)
    >  (PTSDw1 -> MiPTSD) ///
    >  (PTSDw2 -> MiPTSD) if female==1,  wrap(1) nocapslatent
    (1 observations with missing values excluded;
     specify option 'method(mlmv)' to use all observations)

    Endogenous variables

    Observed:  crhtw2 crhtw3 PTSDw1 PTSDw2 MiPTSD

    Exogenous variables

    Observed:  crhtw1

    Fitting target model:

    Iteration 0:   log likelihood = -5310.8935
    Iteration 1:   log likelihood = -5310.8935

    Structural equation model                       Number of obs      =       362
    Estimation method  = ml
    Log likelihood     = -5310.8935
```

	OIM				
	Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.6298151	.0354846	17.75	0.000	.5602666	.6993636
_cons	.0885394	.0338073	2.62	0.009	.0222783	.1548005
crhtw3 <-						
crhtw2	1.051234	.0234364	44.85	0.000	1.005299	1.097168
crhtw1	-.1166559	.0216388	-5.39	0.000	-.1590671	-.0742447
_cons	.0072487	.0152171	0.48	0.634	-.0225762	.0370736
PTSDw1 <-						
crhtw1	1.423881	1.849218	0.77	0.441	-2.20052	5.048282
_cons	17.80774	1.76181	10.11	0.000	14.35465	21.26082
PTSDw2 <-						
crhtw2	.9851263	.6519713	1.51	0.131	-.2927141	2.262967
PTSDw1	.0659966	.0125106	5.28	0.000	.0414762	.0905171

crhtw1	.0766308	.6015396	0.13	0.899	-1.102365	1.255627
_cons	2.147164	.4770868	4.50	0.000	1.212091	3.082237
MiPTSD <-						
crhtw2	3.611711	2.237003	1.61	0.106	-.7727343	7.996156
crhtw3	3.099064	1.963337	1.58	0.114	-.7490059	6.947133
PTSDw1	.0583282	.0173943	3.35	0.001	.024236	.0924204
PTSDw2	.2669377	.0705756	3.78	0.000	.1286121	.4052634
crhtw1	-4.365202	.8365525	-5.22	0.000	-6.004815	-2.72559
_cons	47.04229	.655743	71.74	0.000	45.75706	48.32753
Variance						
e.crhtw2	.4056681	.0301531			.3506724	.4692888
e.crhtw3	.0806603	.0059954			.0697253	.0933102
e.PTSDw1	1101.712	81.88962			952.3549	1274.493
e.PTSDw2	62.33283	4.633163			53.88247	72.10845
e.MiPTSD	111.4816	8.286364			96.36825	128.9652

LR test of model vs. saturated: chi2(**3**) = **3.98**, Prob > chi2 = **0.2637**

```
101 .
102 .
103 . // reduced  path model
104 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> PTSDw1) (crhtw1 -> PTSD
> w2) (crhtw1 -> MiPTSD) (crhtw2 -> crhtw3) ///
>  (crhtw2 -> PTSDw2) (crhtw2 -> MiPTSD) (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2)
>  (PTSDw1 -> MiPTSD) ///
>  (PTSDw2 -> MiPTSD) if female==1, vce(cluster id) wrap(1) nocapslatent
(1 observations with missing values excluded;
 specify option 'method(mlmv)' to use all observations)

Endogenous variables

Observed:  crhtw2 crhtw3 PTSDw1 PTSDw2 MiPTSD

Exogenous variables

Observed:  crhtw1

Fitting target model:

Iteration 0:   log pseudolikelihood = -5310.8935
Iteration 1:   log pseudolikelihood = -5310.8935

Structural equation model                       Number of obs      =       362
Estimation method  = ml
Log pseudolikelihood= -5310.8935
```

(Std. Err. adjusted for **362** clusters in id)

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.6298151	.0400677	15.72	0.000	.5512839	.7083464
_cons	.0885394	.0360796	2.45	0.014	.0178246	.1592541
crhtw3 <-						
crhtw2	1.051234	.0277728	37.85	0.000	.9967999	1.105667
crhtw1	-.1166559	.0316122	-3.69	0.000	-.1786147	-.054697
_cons	.0072487	.0158942	0.46	0.648	-.0239034	.0384008
PTSDw1 <-						
crhtw1	1.423881	1.804336	0.79	0.430	-2.112553	4.960315
_cons	17.80774	1.740305	10.23	0.000	14.3968	21.21867
PTSDw2 <-						
crhtw2	.9851263	.5144778	1.91	0.056	-.0232317	1.993484
PTSDw1	.0659966	.0151775	4.35	0.000	.0362494	.0957439
crhtw1	.0766308	.5442594	0.14	0.888	-.9900981	1.14336
_cons	2.147164	.2859438	7.51	0.000	1.586725	2.707604
MiPTSD <-						
crhtw2	3.611711	2.45526	1.47	0.141	-1.20051	8.423931
crhtw3	3.099064	2.173102	1.43	0.154	-1.160138	7.358265
PTSDw1	.0583282	.0187505	3.11	0.002	.0215779	.0950785
PTSDw2	.2669377	.0937	2.85	0.004	.0832891	.4505864
crhtw1	-4.365202	.9294167	-4.70	0.000	-6.186826	-2.543579
_cons	47.04229	.5888074	79.89	0.000	45.88825	48.19634
Variance						
e.crhtw2	.4056681	.0388891			.3361793	.4895204
e.crhtw3	.0806603	.0123716			.0597178	.1089472
e.PTSDw1	1101.712	98.1412			925.2148	1311.879
e.PTSDw2	62.33283	25.07038			28.33753	137.1108
e.MiPTSD	111.4816	11.44536			91.16201	136.3304

105 .