


```

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

```

		Coef.	OIM 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							

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

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

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
crhtw1 <- illw2	4.523	1	0.03	-.0785421	-.0501654
crhtw2 <- radw1	11.783	1	0.00	-.0034118	-.1378039
PTSDw1 <- radchw2	4.455	1	0.03	-.1556654	-.1360587


```

18 . 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	

> _____							
		Coef.	OIM 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

```

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

```

          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

```

```

19 .
20 .
21 . title4 "Full cluster id robust version of male dose PTSD model"

```

```

Full cluster id robust version of male dose PTSD model

```

```

22 . set more off

23 . 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)

```

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Inte	
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 <-

```

```

> 35354      crhtw1 |  -.1193749  .0386943  -3.09  0.002  -.1952143  -.04
> 26467      crhtw2 |   1.060463  .0336763  31.49  0.000  .9944586  1.1
> 52882      _cons |  -.0122718  .0140615  -0.87  0.383  -.0398319  .01
-----
> -----
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
-----
> -----

```

24 . 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
airw1	6.770	1	0.01	-.3189926	-.2966778
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

25 . 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](#)

26 . estat stable

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

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

stability index = .0002677

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

27 . estat gof

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

28 . 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
>
> 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
> -----
> -----

```

29 . 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	
> 0.003	crhtw2	0.052	-0.002	0.364	-0.177	-0.117	-
> 1.075	radw2	-0.125	-1.484	44.848	1.155	-0.032	-
	-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
>
>      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
>      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
>      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
>      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
>      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
>      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
>
> _____
> _____
> _____

```

```
30 . estat teffects
```

Direct effects

(Std. Err. adjusted for 331 clusters i

> n id)

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Inte	
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							
PTSDw1 <-							
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							
PTSDw2 <-							
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							

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

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)

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Inte
--	-------	---------------------	---	------	-----------------

> rval]

> _____

Structural

avgcumdosew2 <-
age
avgcumdosew1
radchw1

0 (no path)
0 (no path)
0 (no path)

> _____

crhtw1 <-

age
avgcumdosew1
havmil
radw1
airw1

0 (no path)
0 (no path)
0 (no path)
0 (no path)
0 (no path)

> _____

PTSDw1 <-

crhtw1
age

0 (no path)
.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
icdxcnt
radw1

0 (no path)
0 (no path)
.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	
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
-----
> -----

```

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

```
35 . title4 "diagram is called TrimMaleCRHTPTSD.stsem"
```

```
36 . 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
```

Observed: PTSDw1 injselfr

Structural equation model
 Estimation method = **ml**
 Log likelihood = **-5130.5154**

Number of obs = **339**

	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**

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

42 . 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
injselfr	6.137	1	0.01	.074456	.04048
Covariance					
e.crhtw2 e.crhtw3	6.137	1	0.01	-.0765316	-.5814144

EPC = expected parameter change

43 . 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](#)

44 . estat gof

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

45 . 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

	observed				
Psi	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

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

Covariances of exogenous variables

	observed	
Phi	PTSDw1	injselfr
observed		
PTSDw1	1514.785	
injselfr	6.634906	.2499456

Means of exogenous variables

	observed	
kappa	PTSDw1	injselfr
mean	24.30678	.5073746

46 . 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						
>							

47 . 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

```
48 .
49 .
50 .
51 . title "h6 Common perceptions of Chernobyl health" "related risk and PTSD fo
    > r females"
```

```
*****  
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```

h6 Common perceptions of Chernobyl health
related risk and PTSD for females

```
*****  
                29 Jul 2012      00:56:37   ****  
  
 > *  
*****  
  
 > *
```

```
52 . set more off
```

```

53 . 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)

```


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

```

54 . 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


```

59 . set more off

60 .    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
> ht w1) ///
>    (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

```

		Coef.	OIM 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
```

```
61 .
62 . set more off

63 . 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
> 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
_____
> -

```

64 . 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

65 . 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](#)

66 . estat gof

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

67 . 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

		observed					
	Psi	e.crhtw1	e.crhtw2	e.crhtw3	e.MiPTSD	e.PTSDw1	e.P
> TSDw2	e.injothr	e.health~f					
>	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

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

Means of exogenous variables

	kappa	observed		
		fdferw1	goferw1	woman
mean		37.43094	29.57459	64.0221

68 . 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 healthef	crhtw2 fdferw1	crhtw3 goferw1	MiPTSD woman	PTSDw1	P
> TSDw2	injothr						
>	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		

69 . estat teffects

Direct effects

(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
> 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

```

> )
> -
      Coef.      Robust
      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
  healthfef   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
  healthfef   .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
  healthfef   .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

>)

> -						
	Coef.	Robust 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

```

```

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

```



```

75 .      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

>)

		Coef.	Robust 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

> -

76 . 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

77 . 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](#)

78 . estat gof

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

79 . 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.P
> TSDw2	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

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

Means of exogenous variables

	kappa	observed		
		fdferw1	goferw1	woman
mean		37.43094	29.57459	64.0221

80 . 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

```

```

>

```

```
81 . estat teffects
```

Direct effects

(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
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
fdferw1	0 (no path)					
goferw1	.0019679	.0009266	2.12	0.034	.0001519	.003783
woman	.004295	.001223	3.51	0.000	.0018979	.00669

```

> -
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

```
> )
```

	Coef.	Robust 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
crhtw2 <-						
crhtw1	0	(no path)				
injothr	.2928139	.0589945	4.96	0.000	.1771867	.40844
healthef	0	(no path)				
fdferw1	.0016399	.0007492	2.19	0.029	.0001714	.003108
goferw1	0	(no path)				
woman	.0064098	.0011566	5.54	0.000	.0041429	.008676
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
      healthf |      .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
      healthf |      .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)
      healthf |              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
> )
-----
> -
                                Coef.    Robust
                                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
-----
> -

```

```

82 .
83 . // regular female path
84 . 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
 Estimation method = **ml**
 Log likelihood = **-5310.8935**

Number of obs = **362**

	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**

```

85 .
86 .
87 . // robust path model
88 . 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

89 .