```
 1 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H6
   /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H6

 2 . use chwide22jul2012, replace
   (Chornobyl sequelae for both sexes   women=362  men = 340 wide format)

 3 . save chwide22jul2012, replace
   file chwide22jul2012.dta saved

 4 .
 5 . cap gen BFbsidep1 =     max(0, BSIposymp - 50);

 6 . cap gen BFbsidep2 = max(0, WHPsociso - 42.14);

 7 . cap gen BFbsidep3 = max(0, 42.14 - WHPsociso);

 8 . cap gen BFbsidep4 = max(0, BSIhos - 4);

 9 . cap gen BFbsidep5 = max(0, BSIsoma - 6);

10 . cap gen BFbsidep6w3 = max(0, polprw3 - 20);

11 . cap gen BFbsidep7 = max(0, BSIpar - 4);

12 . cap gen BFbsidep11 = max(0, 65.06 - WHPsleep);

13 . cap gen BFbsidep12 = max(0, BSIoc - 5);

14 . cap gen BFbsidep13 = max(0, BSIanx - 5);

15 . cap gen BFbsidep14 = max(0, BSIips - 4);

16 . cap gen BFbsidep15 = max(0, BSIphanx - 5);

17 . cap gen BFbsidep16 = max(0, BSIpsyc - 4);
```

```
18 . cap gen BFbsidep19w2 = max(0, neiw2 - 90);

19 . cap gen BFbsidep21 = max(0, BSItotal - 108);

20 . cap gen BFbsidep23 = max(0, 108 - BSItotal);

21 . cap gen BFbsidep25 = CSprbslv;

22 . cap gen BFbsidep27  = max(0, CSprbslv - 11)* BFbsidep25;

23 . cap gen BFbsidep29 = max(0, 126.757 - havmil);

24 . cap gen BFbsidep30 = max(0, aborw2 + 1.40268e-008);

25 . cap gen BFps1 = max(0, bf4m - 21);

26 . cap gen BFps2 = max(0, 21-bf4m);

27 . cap gen BFps3 = max(0, WHPer - 33.7);

28 . cap gen BFps4 = max(0, 33.7 - WHPer);

29 . cap gen BFps6w3 = max(0, 20-fdferw3);

30 . cap gen BFps8 = max(0, 20-CSsocspt);

31 . cap gen BFps8w2 = max(0, 5- depagw2);

32 . cap gen BFdepx1 = max(0, WHPer + 3.14933e-007);

33 . cap gen BFdepx2 = max(0, bf4m - 9);

34 . cap gen BFptsd1a = max(0, BSIsoma - 6);

35 . cap gen BFptsd2a = max(0, fdferw2 - 7.17707e-007);

36 . cap gen BFptsd4a = max(0, 40- depagw3);
```

```
37 . cap gen BFptsd5a = max(0, airw2 - 10);

38 . cap gen BFptsd7a = max(0, polprw3 - 10);

39 . cap gen BFptsd13a = max(0, WHPer + 6.5771e-008);

40 . cap gen BFbsipstd1c = max(0, BSItotal-53);

41 . cap gen BFbsiptsd2w1c = max(0, 36- shjobw1);

42 . cap gen BFbsiptsdw2d = max(0, 70-fdferw2);

43 . cap gen BFbsiptsdd = max(0, 23.48 - WHPpa);

44 .
45 . // does it explain predict it at each wave?
46 . // does it explain predict it at final wave
47 . // how  well does it do so
48 . // by assumption fulfillment
49 . // by encompassing
50 . // over time
51 .
52 . des crhtw*

              storage  display     value
variable name   type   format      label      variable label
------------------------------------------------------------------------------
crhtw1          float  %9.0g                  Chornobyl related health
                                                threat: wave 1 alpha = .835
crhtw2          float  %9.0g                 Chornobyl related health threat
                                                in wave 2 alpha=.822
crhtw3          float  %9.0g                 Chornobyl rleated health threat
                                                in wave 3 alpha=0.833
crhtw1Xc1       float  %9.0g

53 . label var crhtw1 " Chornobyl related health threat: wave 1 alpha = .796"
```

```
54 . label var crhtw1 " Chornobyl related health threat: wave 1 alpha = .822"

55 . label var crhtw1 " Chornobyl related health threat: wave 1 alpha = .835"

56 . // zero-order analysis
57 . cap drop ptsd1g1pred

58 . cap drop ptsd1g2pred

59 . cap drop ptsd2g1pred

60 . cap drop ptsd2g2pred

61 . cap drop ptsd3g1pred

62 . cap drop ptsd3g2pred

63 . cap drop ptsd1g1res

64 . cap drop ptsd1g2res

65 . cap drop ptsd2g1res

66 . cap drop ptsd2g2res

67 . cap drop ptsd3g1res

68 . cap drop ptsd3g2res

69 .
70 . forvalues k=1/2 {
     2. forvalues i=1/3 {
     3. regress PTSDw`i' crhtw`i' if gender==`k'
     4. cap predict srptsd`i'g`k'pred, xb
     5. cap predict srptsd`i'g`k'res, residual
     6. scatter PTSDw`i' crhtw`i' if gender==`k', color(sand) ///
   >   || lowess PTSDw`i' crhtw`i' if gender==`k', ///
   >   title("PTSDw`i'and Chornobyl related health risk" "in wave `i' for gender=
   > =`k'") ///
   >   ytitle(PTSD self-report)
     7. }
     8. }
```

Source	SS	df	MS		
Model	88945.9816	1	88945.9816		
Residual	424566.113	337	1259.8401		
Total	513512.094	338	1519.26655		

Number of obs = 339
F(1, 337) = 70.60
Prob > F = 0.0000
R-squared = 0.1732
Adj R-squared = 0.1708
Root MSE = 35.494

PTSDw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	17.44697	2.076417	8.40	0.000	13.3626	21.53134
_cons	26.78632	1.950237	13.73	0.000	22.95015	30.62249

Source	SS	df	MS		
Model	7220.64144	1	7220.64144		
Residual	46936.7285	337	139.278126		
Total	54157.37	338	160.228905		

Number of obs = 339
F(1, 337) = 51.84
Prob > F = 0.0000
R-squared = 0.1333
Adj R-squared = 0.1308
Root MSE = 11.802

PTSDw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw2	5.014186	.6963923	7.20	0.000	3.644362	6.384009
_cons	6.022352	.653659	9.21	0.000	4.736586	7.308118

Source	SS	df	MS		
Model	6616.91939	1	6616.91939		
Residual	42060.1163	337	124.807467		
Total	48677.0357	338	144.014898		

Number of obs = 339
F(1, 337) = 53.02
Prob > F = 0.0000
R-squared = 0.1359
Adj R-squared = 0.1334
Root MSE = 11.172

PTSDw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw3	4.804477	.6598397	7.28	0.000	3.506553	6.1024
_cons	6.115832	.6188266	9.88	0.000	4.898582	7.333081

Source	SS	df	MS		
Model	653.189301	1	653.189301		
Residual	398819.808	360	1107.8328		
Total	399472.997	361	1106.5734		

Number of obs = 362
F(1, 360) = 0.59
Prob > F = 0.4431
R-squared = 0.0016
Adj R-squared = -0.0011
Root MSE = 33.284

PTSDw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	**1.423881**	**1.854348**	**0.77**	**0.443**	**-2.222834**	**5.070596**
_cons	**17.80774**	**1.766697**	**10.08**	**0.000**	**14.33339**	**21.28208**

Source	SS	df	MS		
Model	**384.3236**	**1**	**384.3236**	Number of obs =	**363**
Residual	**24311.2565**	**361**	**67.3442008**	F(1, 361) =	**5.71**
				Prob > F =	**0.0174**
Total	**24695.5801**	**362**	**68.2198345**	R-squared =	**0.0156**
				Adj R-squared =	**0.0128**
				Root MSE =	**8.2064**

PTSDw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw2	**1.182857**	**.4951466**	**2.39**	**0.017**	**.2091229**	**2.156591**
_cons	**3.30197**	**.4390455**	**7.52**	**0.000**	**2.438562**	**4.165378**

Source	SS	df	MS		
Model	**542.295421**	**1**	**542.295421**	Number of obs =	**363**
Residual	**25643.2934**	**361**	**71.0340538**	F(1, 361) =	**7.63**
				Prob > F =	**0.0060**
Total	**26185.5888**	**362**	**72.3358808**	R-squared =	**0.0207**
				Adj R-squared =	**0.0180**
				Root MSE =	**8.4282**

PTSDw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw3	**1.373599**	**.4971362**	**2.76**	**0.006**	**.3959526**	**2.351246**
_cons	**4.535616**	**.4505602**	**10.07**	**0.000**	**3.649563**	**5.421668**

```
71 .
72 . // summary of findings:  self-report r^2 are very low in all but wave 1 to s
   > ay
```

```
73 . // that there is a prediction here.
74 .
75 .
76 .
77 . // wave three retrospective analysis
78 .
79 . forvalues k=1/2 {
     2. forvalues i=1/3 {
     3. set more off
     4. regress MiPTSD crhtw`i' if gender==`k'
     5. cap predict ptsd`i'g`k'pred, xb
     6. cap predict ptsd`i'g`k'res, residual
     7. scatter MiPTSD crhtw`i' if gender==`k', color(sand) ///
   >   || lowess MiPTSD crhtw`i' if gender==`k', ///
   >   title("MiPTSD and Chornobyl related health risk" "in wave `i' for gender==
   > `k'") ///
   >   ytitle(MiPTSD)
     8. }
     9. }
```

Source	SS	df	MS		
Model	7481.97182	1	7481.97182		
Residual	40488.6889	337	120.144478		
Total	47970.6608	338	141.925032		

Number of obs	339
F(1, 337)	62.27
Prob > F	0.0000
R-squared	0.1560
Adj R-squared	0.1535
Root MSE	10.961

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	5.060167	.6412225	7.89	0.000	3.798865	6.32147
_cons	47.90203	.6022567	79.54	0.000	46.71738	49.08669

Source	SS	df	MS		
Model	12627.3854	1	12627.3854		
Residual	35343.2753	337	104.876188		
Total	47970.6608	338	141.925032		

Number of obs	339
F(1, 337)	120.40
Prob > F	0.0000
R-squared	0.2632
Adj R-squared	0.2610
Root MSE	10.241

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw2	6.63085	.6042977	10.97	0.000	5.44218	7.819521
_cons	48.40302	.5672157	85.33	0.000	47.28729	49.51875

Source	SS	df	MS	Number of obs =	339
				F(1, 337) =	132.86
Model	13564.0698	1	13564.0698	Prob > F =	0.0000
Residual	34406.591	337	102.096709	R-squared =	0.2828
				Adj R-squared =	0.2806
Total	47970.6608	338	141.925032	Root MSE =	10.104

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw3	6.878808	.5967934	11.53	0.000	5.704898	8.052717
_cons	48.4504	.559699	86.57	0.000	47.34946	49.55135

Source	SS	df	MS	Number of obs =	362
				F(1, 360) =	0.02
Model	3.61764538	1	3.61764538	Prob > F =	0.8748
Residual	52388.6807	360	145.524113	R-squared =	0.0001
				Adj R-squared =	-0.0027
Total	52392.2983	361	145.13102	Root MSE =	12.063

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	-.1059661	.6720809	-0.16	0.875	-1.427664	1.215732
_cons	49.62184	.6403132	77.50	0.000	48.36261	50.88106

Source	SS	df	MS	Number of obs =	363
				F(1, 361) =	29.86
Model	4018.3944	1	4018.3944	Prob > F =	0.0000
Residual	48586.702	361	134.589202	R-squared =	0.0764
				Adj R-squared =	0.0738
Total	52605.0964	362	145.317946	Root MSE =	11.601

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw2	3.824811	.6999852	5.46	0.000	2.44825	5.201372
_cons	48.91023	.6206754	78.80	0.000	47.68964	50.13083

Source	SS	df	MS	Number of obs =	363
				F(1, 361) =	38.71
Model	5094.8758	1	5094.8758	Prob > F =	0.0000
Residual	47510.2206	361	131.607259	R-squared =	0.0969
				Adj R-squared =	0.0943
Total	52605.0964	362	145.317946	Root MSE =	11.472

MiPTSD	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw3	**4.21026**	**.676678**	**6.22**	**0.000**	**2.879534**	**5.540986**
_cons	**48.84299**	**.6132809**	**79.64**	**0.000**	**47.63694**	**50.04904**

```
80 . // R^2 are very small except in wave 1 to say that there is a prediction in
   > waves
81 . // 2 and 3
82 .
83 . // Therefore we will examine wave 1 in more detail but MiPTSD is not a valid
   >  scale there.
84 . cap drop r3

85 . regress MiPTSD crhtw1 if gender==1, vce(cluster id)    // males

Linear regression                               Number of obs =     339
                                                F(  1,   338) =   47.55
                                                Prob > F      =  0.0000
                                                R-squared     =  0.1560
                                                Root MSE      =  10.961

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

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	**5.060167**	**.7338265**	**6.90**	**0.000**	**3.616725**	**6.503609**
_cons	**47.90203**	**.6420479**	**74.61**	**0.000**	**46.63912**	**49.16495**

```
86 . rdiagrbst r3     // only 50% of assumptions fulfilled

*************************************************************************
> *
*************************************************************************
> *
*****                                                                ****
> *
*****                                                                ****
> *
*****                  Robust Residual Diagnostics :                 ****
> *
*****                                                                ****
> *
*****                                                                ****
> *
```

```
> *
********************************************************************************
> *
********************************************************************************
> *
```

```
(option xb assumed; fitted values)
(1 missing value generated)
yvar =  MiPTSD
crhtw1 _cons
12
6
xvar = ,crhtw1
```

	Problems
POuts	**0**
NOuts	**0**
Badouts	**0**
Collin	**0**
SW	**0**
KS	**0**
Spec	**0**
Strbrk	**0**
Coltot	**0**
Pcttot	**0**

Outlier dignostics

Fitted values

	Percentiles	Smallest		
1%	**40.47459**	**40.30397**		
5%	**40.73051**	**40.30397**		
10%	**41.19661**	**40.30397**	Obs	**701**
25%	**43.73628**	**40.30397**	Sum of Wgt.	**701**

50%	**47.43007**		Mean	**47.90203**
		Largest	Std. Dev.	**4.791489**
75%	**53.78838**	**54.21492**		
90%	**54.21492**	**54.21492**	Variance	**22.95837**
95%	**54.21492**	**54.21492**	Skewness	**.0578457**
99%	**54.21492**	**54.21492**	Kurtosis	**1.577906**

(175 real changes made)
(175 real changes made)
(175 real changes made)
(175 real changes made)
(176 real changes made)
(176 real changes made)
(176 real changes made)
(176 real changes made)

Variable	Obs	Mean	Std. Dev.	Min	Max
__000001	**702**	**.2492877**	**.4329092**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000003	**702**	**.2492877**	**.4329092**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000005	**702**	**.2507123**	**.4337322**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000007	**702**	**.2507123**	**.4337322**	**0**	**1**

.18741034
.1881236
Split sample analysis
There are 4 subsamples of equal sample size.

Variance 1 = .18741034
Variance 2 = .18741034
Variance 3 = .1881236
Variance 4 = .1881236

Minimum variance = .18741034

Maximum variance = .1881236

Computing Box's F test as indication of stuctural break:

for segment 1 Box's F = 1
for segment 2 Box's F = 1
for segment 3 Box's F = 1.0038059

for segment 4 Box's F = 1.0038059

There appears to be no structural break.

obs:	r3std
32.	-1.585742
52.	-1.585742
85.	-1.585742
366.	-1.585742
552.	-1.585742

679.	1.317521
680.	1.317521
684.	1.317521
686.	1.317521
690.	1.317521

note: **6** values of **-1.585742**
note: **129** values of **1.317521**
There are 0 positive outliers
There are 0 negative outliers:
(702 real changes made, 702 to missing)
    0
    0
(1 real change made)
    1

outlier

Percentiles		Smallest		
1%	**0**	**0**		
5%	**0**	**0**		
10%	**0**	**0**	Obs	**702**
25%	**0**	**0**	Sum of Wgt.	**702**
50%	**0**		Mean	**.0014245**
		Largest	Std. Dev.	**.0377426**
75%	**0**	**0**		
90%	**0**	**0**	Variance	**.0014245**
95%	**0**	**0**	Skewness	**26.43864**
99%	**0**	**1**	Kurtosis	**700.0014**

(351 real changes made)

__00000N	Freq.	Percent	Cum.
0	351	50.00	50.00
1	351	50.00	100.00
Total	702	100.00	

Stem-and-leaf plot for r3std

r3std rounded to nearest multiple of .01
plot in units of .01

```
 -15* | 99999975333333311110000000000000000000
 -14* | 88888654444444433333111111111111110
 -13* | 86666643311
 -12* | 8777776433222222111
 -11* | 9987755444444444440
 -10* | 9999999774443100000000
  -9* | 99998877776555555333222221100000
  -8* | 8776666666665433322100
  -7* | 9985433222111100
  -6* | 99988888888888887775433110000
  -5* | 999999998665555533320000
  -4* | 66666655332211111111100
  -3* | 98777766554322222222222221
  -2* | 9877777222221
  -1* | 98877755533333333333220000000
  -0* | 888888888887666665555555555555555555511
   0* | 0116666
   1* | 4556777799999
   2* | 0012333556788
   3* | 6999
   4* | 011334555566888
   5* | 00000005688
   6* | 0222888889
   7* | 0124444445777777
   8* | 27
   9* | 011156677999
  10* | 112334444446
  11* | 04446888889
  12* | 13333333333333335566666666668888888888888888
  13* | 000001222222222222222222222222222222222222222222222222222222 ... (135
> )
```

Computing the leverage h

r3std

	Percentiles	Smallest		
1%	-1.550133	-1.585742		
5%	-1.49672	-1.585742		
10%	-1.399444	-1.585742	Obs	701
25%	-.8694065	-1.585742	Sum of Wgt.	701
50%	-.0985015		Mean	-1.32e-09
		Largest	Std. Dev.	1
75%	1.2285	1.317521		
90%	1.317521	1.317521	Variance	1
95%	1.317521	1.317521	Skewness	.0578457
99%	1.317521	1.317521	Kurtosis	1.577906

standard error of snewness= .09231881
(702 real changes made, 702 to missing)

t test for skewness = .
badout= 1
Positive outliers are :
0
Negative outliers are:
0

---

multicollinearity tests:

Variable	VIF	1/VIF
crhtw1	1.00	1.000000
Mean VIF	1.00	

Condition number using scaled variables = 1.16

Condition Indexes and Variance-Decomposition Proportions

condition index	_cons	crhtw1
>		
1 1.00	0.42	0.42
2 1.16	0.58	0.58

Residual normality tests:

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
r3std	**701**	**0.94229**	**26.350**	**7.982**	**0.00000**

Skewness/Kurtosis tests for Normality

				joint	
Variable	Obs	Pr(Skewness)	Pr(Kurtosis)	adj chi2(2)	Prob>chi2
r3std	**701**	**0.5279**	.	.	.

Jarque-Bera normality test: **59.46** Chi(**2**) **1.2e-13**
Jarque-Bera test for Ho: normality:
(file qnr3std.gph saved)
(file bxr3std.gph saved)
(bin=**26**, start=**-1.5857415**, width=**.11166396**)
(file histr3std.gph saved)
(file kdr3std.gph saved)
(file combi4.gph saved)

Specification error tests:

Ramsey RESET test using powers of the fitted values of MiPTSD
Ho: model has no omitted variables
F(3, 334) = **7.65**
Prob > F = **0.0001**

Assessment of fulfillment of cross-sectional statistical regression assumption > s:
Caveat: This score is a heuristicc only as these scores are not strictly addit > ive

Regression model assumption test result matrix

	Problems=1
Positive-outliers	**0**
Negative-outliers	**0**
Bad-outliers	**1**
collinearity	**0**
Shapiro-Wilk	**1**
Kolmogorov-Smirnov	**0**
Specification	**1**

StructuralBreak	**0**
TotalProbs	**2.5**
Percent-Invalid	**50**
Pct-Pseudo-Valid	**50**

```
Problem type total score = Bad-Outliers+collinearity + (SW + KS)/2 + Spec + st
> rbrk
Percent_Valid = 100 - (percent of violated assumptions)
```

```
Legend:
PosOutliers = positive outlier issue
NegOutliers = negative outlier issue
Badoutliers = Number of outliers with bad leverage
collinearity =  Collinearity problem when condition number > 20
SW = Significant Shapiro-Wilk test
KS = Significant Kolmogorov-Smirnov test
Spec = Significant Ramset23 reset test
strbrk = Existence of structural break in residual variance between 4 sample s
> egments
Column total = the total number of counted problems in the column vector
Percent invalid: Percent of 6 regression assumptions violated
Percent Pseudo-Validity =  percent of regression model assumptions not violate
> d
```

```
87 .
88 . cap drop r4

89 . regress MiPTSD crhtw1 if gender==2, vce(cluster id)  // only 50% of assumpti
> ons fufilled

Linear regression                               Number of obs =     362
                                                F(  1,   361) =    0.02
                                                Prob > F      =  0.8874
                                                R-squared     =  0.0001
                                                Root MSE      =  12.063
```

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

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhtw1	**-.1059661**	**.7481201**	**-0.14**	**0.887**	**-1.577187**	**1.365255**
_cons	**49.62184**	**.642563**	**77.22**	**0.000**	**48.3582**	**50.88547**

```
90 . rdiagrbst r4

*******************************************************************************
> *
*******************************************************************************
> *
*****                                                                     ****
> *
*****                                                                     ****
> *
*****                  Robust Residual Diagnostics :                      ****
> *
*****                                                                     ****
> *
*****                                                                     ****
> *
*****                                          26 Jul 2012    11:21:14  ****
> *
*******************************************************************************
> *
*******************************************************************************
> *

(option xb assumed; fitted values)
(1 missing value generated)
yvar =  MiPTSD
crhtw1 _cons
12
6
xvar = ,crhtw1
```

	Problems
POuts	**0**
NOuts	**0**
Badouts	**0**
Collin	**0**
SW	**0**
KS	**0**
Spec	**0**
Strbrk	**0**
Coltot	**0**
Pcttot	**0**

Outlier dignostics

Fitted values

	Percentiles	Smallest		
1%	**49.48964**	**49.48964**		
5%	**49.48964**	**49.48964**		
10%	**49.48964**	**49.48964**	Obs	**701**
25%	**49.49857**	**49.48964**	Sum of Wgt.	**701**
50%	**49.63172**		Mean	**49.62184**
		Largest	Std. Dev.	**.1003394**
75%	**49.70907**	**49.78095**		
90%	**49.76226**	**49.78095**	Variance	**.010068**
95%	**49.77202**	**49.78095**	Skewness	**-.057841**
99%	**49.77738**	**49.78095**	Kurtosis	**1.577905**

(175 real changes made)
(175 real changes made)
(175 real changes made)
(175 real changes made)
(176 real changes made)
(176 real changes made)
(176 real changes made)
(176 real changes made)

Variable	Obs	Mean	Std. Dev.	Min	Max
__000001	**702**	**.2492877**	**.4329092**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000003	**702**	**.2492877**	**.4329092**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000005	**702**	**.2507123**	**.4337322**	**0**	**1**

Variable	Obs	Mean	Std. Dev.	Min	Max
__000007	**702**	**.2507123**	**.4337322**	**0**	**1**

.18741034
.1881236
Split sample analysis
There are 4 subsamples of equal sample size.

Variance 1 = .18741034
Variance 2 = .18741034
Variance 3 = .1881236
Variance 4 = .1881236

Minimum variance = .18741034

Maximum variance = .1881236

Computing Box's F test as indication of stuctural break:

for segment 1 Box's F = 1
for segment 2 Box's F = 1
for segment 3 Box's F = 1.0038059
for segment 4 Box's F = 1.0038059

There appears to be no structural break.

obs:	r4std
10.	-1.317515
11.	-1.317515
17.	-1.317515
18.	-1.317515
21.	-1.317515

52.	1.585726
85.	1.585726
366.	1.585726
552.	1.585726
649.	1.585726

```
note: 129 values of -1.317515
note: 6 values of 1.585726
There are 0 positive outliers
There are 0 negative outliers:
(702 real changes made, 702 to missing)
    0
    0
(1 real change made)
    1
```

outlier

Percentiles		Smallest		
1%	0	0		
5%	0	0		
10%	0	0	Obs	702
25%	0	0	Sum of Wgt.	702
50%	0		Mean	.0014245
		Largest	Std. Dev.	.0377426
75%	0	0		
90%	0	0	Variance	.0014245
95%	0	0	Skewness	26.43864
99%	0	1	Kurtosis	700.0014

```
(351 real changes made)
```

__00000N	Freq.	Percent	Cum.
0	351	50.00	50.00
1	351	50.00	100.00
Total	702	100.00	

```
Stem-and-leaf plot for r4std

r4std rounded to nearest multiple of .01
plot in units of .01
```

```
 -13* | 22222222222222222222222222222222222222222222222222222222222 ... (135
> )
 -12* | 88888888888888866666666665533333333333333331
 -11* | 98888864440
 -10* | 655555433211
  -9* | 999776651110
  -8* | 72
  -7* | 7777775444444210
  -6* | 9888882220
  -5* | 88650000000
  -4* | 888665555433110
  -3* | 9996
  -2* | 8876553332100
  -1* | 9999977776554
  -0* | 666611
   0* | 011555555555555555555556666678888888888
   1* | 000000022333333333333555777889
   2* | 1222227777789
   3* | 12222222222222345566777789
   4* | 00111111111223355666666
   5* | 000023335555566899999999
   6* | 000011334577788888888888999
   7* | 0011112223345899
   8* | 0012233345666666666778
   9* | 000001122222333555555567777889999
  10* | 0000000013444779999999
  11* | 0444444444445577899
  12* | 1112222223346777778
  13* | 11334666668
  14* | 011111111111133333444444445688888
  15* | 000000000000000000111133333333357999999
```

Computing the leverage h

r4std

Percentiles		Smallest			
1%	**-1.317515**	**-1.317515**			
5%	**-1.317515**	**-1.317515**			
10%	**-1.317515**	**-1.317515**	Obs		**701**
25%	**-1.228515**	**-1.317515**	Sum of Wgt.		**701**

50%	**.0985018**		Mean	**1.06e-08**
		Largest	Std. Dev.	**1**
75%	**.8693919**	**1.585726**		
90%	**1.399438**	**1.585726**	Variance	**1**
95%	**1.496726**	**1.585726**	Skewness	**-.0578409**
99%	**1.550141**	**1.585726**	Kurtosis	**1.577905**

standard error of snewness= .09231881
(702 real changes made, 702 to missing)

t test for skewness = .
badout= 1
Positive outliers are :
0
Negative outliers are:
0

---

multicollinearity tests:

Variable	VIF	1/VIF
crhtw1	**1.00**	**1.000000**
Mean VIF	**1.00**	

Condition number using scaled variables = **1.15**

Condition Indexes and Variance-Decomposition Proportions

condition index	_cons	crhtw1
1	**1.00**	**0.43**	**0.43**
2	**1.15**	**0.57**	**0.57**

Residual normality tests:

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
r4std	**701**	**0.93196**	**31.067**	**8.384**	**0.00000**

Skewness/Kurtosis tests for Normality

Variable	Obs	Pr(Skewness)	Pr(Kurtosis)	joint adj chi2(2)	joint Prob>chi2
r4std	**701**	**0.5279**	.	.	.

Jarque-Bera normality test: **59.46** Chi(**2**) **1.2e-13**
Jarque-Bera test for Ho: normality:
(file qnr4std.gph saved)
(file bxr4std.gph saved)
(bin=**26**, start=**-1.3175149**, width=**.11166312**)
(file histr4std.gph saved)
(file kdr4std.gph saved)
(file combi4.gph saved)

Specification error tests:

Ramsey RESET test using powers of the fitted values of MiPTSD
Ho: model has no omitted variables
F(3, 357) = **5.75**
Prob > F = **0.0008**

Assessment of fulfillment of cross-sectional statistical regression assumption > s:
Caveat: This score is a heuristicc only as these scores are not strictly addit > ive

Regression model assumption test result matrix

	Problems=1
Positive-outliers	**0**
Negative-outliers	**0**
Bad-outliers	**1**
collinearity	**0**
Shapiro-Wilk	**1**
Kolmogorov-Smirnov	**0**
Specification	**1**
StructuralBreak	**0**
TotalProbs	**2.5**

Percent-Invalid	**50**
Pct-Pseudo-Valid	**50**

```
Problem type total score = Bad-Outliers+collinearity + (SW + KS)/2 + Spec + st
> rbrk
Percent_Valid = 100 - (percent of violated assumptions)
```

```
Legend:
PosOutliers = positive outlier issue
NegOutliers = negative outlier issue
Badoutliers = Number of outliers with bad leverage
collinearity =  Collinearity problem when condition number > 20
SW = Significant Shapiro-Wilk test
KS = Significant Kolmogorov-Smirnov test
Spec = Significant Ramset23 reset test
strbrk = Existence of structural break in residual variance between 4 sample s
> egments
Column total = the total number of counted problems in the column vector
Percent invalid: Percent of 6 regression assumptions violated
Percent Pseudo-Validity =  percent of regression model assumptions not violate
> d
```

```
91 .
92 .
93 . fracpoly regress MiPTSD crhtw1 if gender==1, vce(cluster id) powers(-3 3)  /
   > / no significant results
   ...
   -> gen double Icrht__1 = X^3-2.515413384 if e(sample)
   -> gen double Icrht__2 = X^3*ln(X)-.7734369237 if e(sample)
      (where: X = (crhtw1+1.502110719680786))

   Linear regression                               Number of obs =     339
                                                   F(  2,   338) =   25.46
                                                   Prob > F      =  0.0000
                                                   R-squared     =  0.1924
                                                   Root MSE      =  10.738
```

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

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
Icrht__1	**-.4806786**	**.6918798**	**-0.69**	**0.488**	**-1.841611**	**.880254**
Icrht__2	**1.093705**	**.689085**	**1.59**	**0.113**	**-.2617305**	**2.44914**
_cons	**43.82821**	**.823832**	**53.20**	**0.000**	**42.20773**	**45.4487**

Deviance: **2568.46.** Best powers of **crhtw1** among **9** models fit: **3 3.**

```
94 . fracpoly regress MiPTSD crhtw1 if gender==2, vce(cluster id) powers(-3 3)  /
> / no significant results
...
-> gen double Icrht__1 = X-1.634755478 if e(sample)
-> gen double Icrht__2 = X^3-4.368762183 if e(sample)
   (where: X = (crhtw1+1.501666713505983))
```

Linear regression

Number of obs =	**362**
F(2, 361) =	**3.61**
Prob > F =	**0.0282**
R-squared =	**0.0186**
Root MSE =	**11.968**

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

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
Icrht__1	**-5.085849**	**2.052607**	**-2.48**	**0.014**	**-9.122417**	**-1.04928**
Icrht__2	**.5686021**	**.2118178**	**2.68**	**0.008**	**.1520504**	**.9851539**
_cons	**47.19258**	**.8935598**	**52.81**	**0.000**	**45.43534**	**48.94981**

Deviance: **2821.41.** Best powers of **crhtw1** among **9** models fit: **1 3.**

```
95 .
96 .
```

```
 97 .
 98 . title "self-report analysis"

   ********************************************************************************
   > *
   ********************************************************************************
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****                          self-report analysis                        ****
   > *
   *****                                                                      ****
   > *
   *****                                                                      ****
   > *
   *****                                          26 Jul 2012    11:21:27  ****
   > *
   ********************************************************************************
   > *
   ********************************************************************************
   > *



 99 .
100 . fracpoly regress PTSDw1 crhtw1 if gender==1, vce(cluster id) powers(-3 3) //
   >  no tranformation nec.
   ...
   -> gen double Icrht__1 = X-1.35999232 if e(sample)
   -> gen double Icrht__2 = X*ln(X)-.4181691498 if e(sample)
      (where: X = (crhtw1+1.502110719680786))

   Linear regression                               Number of obs =     339
                                                   F(  2,   338) =   54.31
                                                   Prob > F      =  0.0000
                                                   R-squared     =  0.1736
                                                   Root MSE      =  35.538
```

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

PTSDw1	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
Icrht__1	**20.44299**	**5.252379**	**3.89**	**0.000**	**10.11152**	**30.77446**
Icrht__2	**-2.427416**	**5.047644**	**-0.48**	**0.631**	**-12.35617**	**7.501335**
_cons	**25.17053**	**2.800766**	**8.99**	**0.000**	**19.66141**	**30.67966**

Deviance: **3379.89.** Best powers of **crhtw1** among **9** models fit: **1 1.**

```
101 .
102 . fracpoly regress PTSDw1 crhtw1 if gender==2, vce(cluster id) powers(-3 3) //
>  no transformation nec.
...
-> gen double Icrht__1 = X-1.634755478 if e(sample)
-> gen double Icrht__2 = X*ln(X)-.8034712642 if e(sample)
   (where: X = (crhtw1+1.501666713505983))
```

Linear regression

Number of obs =	**362**
F(2, 361) =	**2.91**
Prob > F =	**0.0560**
R-squared =	**0.0084**
Root MSE =	**33.217**

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

PTSDw1	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
Icrht__1	**13.95545**	**6.17506**	**2.26**	**0.024**	**1.811847**	**26.09906**
Icrht__2	**-9.525836**	**4.912623**	**-1.94**	**0.053**	**-19.18679**	**.1351189**
_cons	**21.06585**	**2.500396**	**8.43**	**0.000**	**16.14868**	**25.98302**

Deviance: **3560.51.** Best powers of **crhtw1** among **9** models fit: **1 1.**

```
103 .
```

```
104 .
105 . // Full male multivarate regression model
106 .
107 . local demogs age i.educ i.marrw1 i.marrw2 i.marrw3 childw1 childw2 childw3 i
    > .emplw1 i.emplw2 ///
    >   i.emplw3 inc1w1-inc4w3 occ1w1-occ8w3

108 . mvreg ptsdw1 ptsdw2 ptsdw3 = `demogs' airw1 radchw1 injothr BSIdep BSIanx he
    > althef crhtw1 if gender==1
    note: 3.emplw2 omitted because of collinearity
    note: 5.emplw2 omitted because of collinearity
    note: occ6w2 omitted because of collinearity
    note: occ7w3 omitted because of collinearity
    note: occ8w3 omitted because of collinearity
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
ptsdw1	**338**	**76**	**32.59707**	**0.4572**	**2.942886**	**0.0000**
ptsdw2	**338**	**76**	**10.2595**	**0.4887**	**3.338778**	**0.0000**
ptsdw3	**338**	**76**	**10.00996**	**0.4604**	**2.980376**	**0.0000**

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ptsdw1						
age	**.0652943**	**.4077007**	**0.16**	**0.873**	**-.7374927**	**.8680813**
educ						
3	**8.45106**	**12.34727**	**0.68**	**0.494**	**-15.86145**	**32.76357**
4	**9.633239**	**15.23269**	**0.63**	**0.528**	**-20.36083**	**39.62731**
5	**19.20168**	**13.24657**	**1.45**	**0.148**	**-6.881596**	**45.28496**
6	**-.7028323**	**12.20564**	**-0.06**	**0.954**	**-24.73647**	**23.3308**
7	**-1.306986**	**21.83665**	**-0.06**	**0.952**	**-44.30465**	**41.69068**
8	**-27.90554**	**27.54834**	**-1.01**	**0.312**	**-82.14988**	**26.33879**
marrw1						
1	**-10.54586**	**36.21996**	**-0.29**	**0.771**	**-81.86512**	**60.77341**
2	**8.831418**	**39.43265**	**0.22**	**0.823**	**-68.81382**	**86.47665**
3	**-2.628605**	**37.40538**	**-0.07**	**0.944**	**-76.28203**	**71.02482**
5	**-38.28629**	**43.10464**	**-0.89**	**0.375**	**-123.1619**	**46.58931**
marrw2						
1	**16.03065**	**54.40489**	**0.29**	**0.768**	**-91.09582**	**123.1571**
2	**16.45164**	**56.09913**	**0.29**	**0.770**	**-94.01089**	**126.9142**
3	**20.97518**	**54.58135**	**0.38**	**0.701**	**-86.49877**	**128.4491**
4	**28.60108**	**58.90431**	**0.49**	**0.628**	**-87.38501**	**144.5872**
5	**15.95701**	**58.27178**	**0.27**	**0.784**	**-98.78361**	**130.6976**
6	**6.088073**	**58.57911**	**0.10**	**0.917**	**-109.2577**	**121.4338**

marrw3						
2	4.518975	10.77546	0.42	0.675	-16.69855	25.7365
3	3.616603	8.423116	0.43	0.668	-12.96902	20.20222
5	-7.22613	12.27658	-0.59	0.557	-31.39944	16.94718
6	9.502402	15.80969	0.60	0.548	-21.62782	40.63263
childw1	-3.183885	5.217167	-0.61	0.542	-13.4568	7.089028
childw2	-.0382252	5.639166	-0.01	0.995	-11.14208	11.06563
childw3	-2.566409	3.872762	-0.66	0.508	-10.19211	5.059291
emplw1						
1	37.68569	56.2413	0.67	0.503	-73.0568	148.4282
2	57.20176	56.56735	1.01	0.313	-54.18273	168.5863
3	35.09998	66.28334	0.53	0.597	-95.41587	165.6158
4	-12.36829	70.4104	-0.18	0.861	-151.0106	126.274
5	41.1689	56.13701	0.73	0.464	-69.36821	151.706
emplw2						
1	2.131723	13.04791	0.16	0.870	-23.5604	27.82384
2	-6.196227	13.2892	-0.47	0.641	-32.36346	19.97101
3	0	(omitted)				
4	9.176578	23.21594	0.40	0.693	-36.537	54.89016
5	0	(omitted)				
emplw3						
2	-2.730603	7.323707	-0.37	0.710	-17.15142	11.69021
4	-4.464715	13.43722	-0.33	0.740	-30.92341	21.99398
5	-21.36273	17.31818	-1.23	0.218	-55.46325	12.7378
inc1w1	.6244982	30.74675	0.02	0.984	-59.91768	61.16668
inc2w1	2.291404	30.68861	0.07	0.941	-58.13631	62.71912
inc3w1	3.363511	30.89121	0.11	0.913	-57.46313	64.19015
inc4w1	7.436507	31.50587	0.24	0.814	-54.60043	69.47345
inc1w2	28.78466	36.53848	0.79	0.432	-43.1618	100.7311
inc2w2	25.86967	35.89286	0.72	0.472	-44.80551	96.54485
inc3w2	33.63758	35.34181	0.95	0.342	-35.95255	103.2277
inc4w2	3.728556	37.5998	0.10	0.921	-70.3077	77.76481
inc1w3	.528931	29.15226	0.02	0.986	-56.8736	57.93146
inc2w3	-2.745049	28.9518	-0.09	0.925	-59.75288	54.26278
inc3w3	-13.75836	28.83279	-0.48	0.634	-70.53184	43.01511
inc4w3	7.111589	30.65358	0.23	0.817	-53.24713	67.47031
occ1w1	-36.72455	26.21504	-1.40	0.162	-88.34353	14.89443
occ2w1	-21.72353	25.45922	-0.85	0.394	-71.85425	28.40719
occ3w1	-33.88273	27.91677	-1.21	0.226	-88.85252	21.08706
occ4w1	-36.60089	27.40753	-1.34	0.183	-90.56795	17.36617
occ5w1	-16.70638	28.93287	-0.58	0.564	-73.67693	40.26417
occ6w1	-51.76305	29.35242	-1.76	0.079	-109.5597	6.033621
occ7w1	3.60118	32.92653	0.11	0.913	-61.23313	68.43549
occ8w1	-31.11893	25.55705	-1.22	0.224	-81.44229	19.20443

occ1w2	3.41252	33.39163	0.10	0.919	-62.3376	69.16264
occ2w2	-9.298653	32.15786	-0.29	0.773	-72.6194	54.02209
occ3w2	-4.910453	34.7961	-0.14	0.888	-73.42604	63.60514
occ4w2	-7.219287	34.47309	-0.21	0.834	-75.09887	60.66029
occ5w2	-5.600562	34.5399	-0.16	0.871	-73.61169	62.41056
occ6w2	0	(omitted)				
occ7w2	-32.24874	37.98224	-0.85	0.397	-107.038	42.54056
occ8w2	-3.355426	32.55715	-0.10	0.918	-67.46239	60.75154
occ1w3	8.877136	14.55095	0.61	0.542	-19.77455	37.52882
occ2w3	7.470262	14.55091	0.51	0.608	-21.18134	36.12186
occ3w3	-2.413332	15.79755	-0.15	0.879	-33.51965	28.69298
occ4w3	2.148485	15.67975	0.14	0.891	-28.72587	33.02284
occ5w3	-8.157986	16.64796	-0.49	0.625	-40.93882	24.62285
occ6w3	24.39979	27.52485	0.89	0.376	-29.79829	78.59787
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	.1676251	.0672196	2.49	0.013	.0352657	.2999845
radchw1	-.1472231	.0567279	-2.60	0.010	-.2589236	-.0355225
injothr	9.976798	5.152818	1.94	0.054	-.1694088	20.123
BSIdep	.1936098	.8516298	0.23	0.820	-1.4833	1.87052
BSIanx	.7232534	.9238086	0.78	0.434	-1.095781	2.542288
healthef	.1443113	.0763212	1.89	0.060	-.0059697	.2945924
crhtw1	12.91632	2.599956	4.97	0.000	7.796855	18.03579
_cons	-52.87153	43.65574	-1.21	0.227	-138.8323	33.08922
ptsdw2						
age	.2310586	.1283184	1.80	0.073	-.0216079	.4837252
educ						
3	3.165499	3.886139	0.81	0.416	-4.48654	10.81754
4	-2.721828	4.794286	-0.57	0.571	-12.16206	6.718408
5	2.521853	4.169181	0.60	0.546	-5.687513	10.73122
6	1.326255	3.841563	0.35	0.730	-6.238012	8.890523
7	-3.602441	6.872795	-0.52	0.601	-17.13539	9.930504
8	-9.410264	8.670475	-1.09	0.279	-26.48295	7.66242
marrw1						
1	-6.82498	11.39975	-0.60	0.550	-29.27177	15.62181
2	-2.901938	12.4109	-0.23	0.815	-27.33974	21.53587
3	-1.106922	11.77285	-0.09	0.925	-24.28836	22.07451
5	-4.848846	13.56661	-0.36	0.721	-31.56232	21.86462
marrw2						
1	-.1126359	17.12322	-0.01	0.995	-33.82927	33.604
2	1.584356	17.65646	0.09	0.929	-33.18226	36.35097
3	.3527078	17.17876	0.02	0.984	-33.47329	34.1787
4	-6.879523	18.53935	-0.37	0.711	-43.38461	29.62556
5	-4.229833	18.34027	-0.23	0.818	-40.34292	31.88325
6	-.3580644	18.437	-0.02	0.985	-36.66161	35.94548

marrw3						
2	-1.242089	3.391433	-0.37	0.714	-7.920023	5.435845
3	-1.193206	2.651064	-0.45	0.653	-6.413309	4.026898
5	-4.044118	3.86389	-1.05	0.296	-11.65235	3.564112
6	-.1114104	4.97589	-0.02	0.982	-9.909235	9.686414
childw1	-1.822153	1.642034	-1.11	0.268	-5.055416	1.41111
childw2	-2.74153	1.774853	-1.54	0.124	-6.236321	.7532612
childw3	1.529954	1.2189	1.26	0.211	-.870133	3.930042
emplw1						
1	-1.154357	17.7012	-0.07	0.948	-36.00908	33.70037
2	3.622412	17.80382	0.20	0.839	-31.43438	38.6792
3	-6.827845	20.8618	-0.33	0.744	-47.90598	34.25029
4	5.114071	22.16074	0.23	0.818	-38.52174	48.74989
5	-1.352957	17.66838	-0.08	0.939	-36.14305	33.43713
emplw2						
1	2.504313	4.106658	0.61	0.543	-5.581941	10.59057
2	-1.102691	4.1826	-0.26	0.792	-9.338481	7.133098
3	0	(omitted)				
4	-6.491405	7.30691	-0.89	0.375	-20.87915	7.896337
5	0	(omitted)				
emplw3						
2	2.267587	2.30504	0.98	0.326	-2.271174	6.806348
4	14.8827	4.229187	3.52	0.001	6.555181	23.21023
5	12.0808	5.450666	2.22	0.028	1.348114	22.81349
inc1w1	1.942021	9.67713	0.20	0.841	-17.11283	20.99687
inc2w1	-.6601056	9.658833	-0.07	0.946	-19.67893	18.35871
inc3w1	1.438328	9.722599	0.15	0.883	-17.70605	20.58271
inc4w1	7.591937	9.916054	0.77	0.445	-11.93337	27.11724
inc1w2	-3.495585	11.5	-0.30	0.761	-26.13978	19.14861
inc2w2	-.411374	11.2968	-0.04	0.971	-22.65545	21.8327
inc3w2	-.530566	11.12336	-0.05	0.962	-22.43313	21.372
inc4w2	-10.7932	11.83404	-0.91	0.363	-34.09512	12.50873
inc1w3	3.128384	9.175285	0.34	0.733	-14.9383	21.19507
inc2w3	1.022405	9.112196	0.11	0.911	-16.92005	18.96486
inc3w3	-1.670245	9.074736	-0.18	0.854	-19.53894	16.19845
inc4w3	5.174347	9.647806	0.54	0.592	-13.82276	24.17145
occ1w1	-45.70994	8.250836	-5.54	0.000	-61.95633	-29.46355
occ2w1	-51.295	8.01295	-6.40	0.000	-67.07298	-35.51703
occ3w1	-46.66025	8.786434	-5.31	0.000	-63.96126	-29.35924
occ4w1	-47.35592	8.626156	-5.49	0.000	-64.34134	-30.37051
occ5w1	-47.50986	9.106237	-5.22	0.000	-65.44058	-29.57913
occ6w1	-9.282865	9.238285	-1.00	0.316	-27.4736	8.907869
occ7w1	-51.30649	10.36319	-4.95	0.000	-71.71223	-30.90075

occ8w1	-45.59506	8.043742	-5.67	0.000	-61.43367	-29.75645
occ1w2	45.63725	10.50957	4.34	0.000	24.94327	66.33122
occ2w2	45.8119	10.12126	4.53	0.000	25.88254	65.74126
occ3w2	43.42398	10.95161	3.97	0.000	21.85961	64.98836
occ4w2	50.28913	10.84995	4.63	0.000	28.92493	71.65333
occ5w2	46.37659	10.87097	4.27	0.000	24.97099	67.78219
occ6w2	0	(omitted)				
occ7w2	47.16876	11.95441	3.95	0.000	23.62982	70.7077
occ8w2	47.3328	10.24693	4.62	0.000	27.15599	67.50962
occ1w3	13.91456	4.579718	3.04	0.003	4.896821	22.9323
occ2w3	15.12116	4.579704	3.30	0.001	6.10345	24.13887
occ3w3	13.14072	4.972069	2.64	0.009	3.350423	22.93102
occ4w3	8.27188	4.934992	1.68	0.095	-1.445414	17.98917
occ5w3	10.80197	5.239725	2.06	0.040	.4846328	21.1193
occ6w3	15.60603	8.663082	1.80	0.073	-1.4521	32.66415
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	-.0011224	.0211565	-0.05	0.958	-.0427808	.040536
radchw1	-.0530823	.0178543	-2.97	0.003	-.0882386	-.0179261
injothr	.0766283	1.621781	0.05	0.962	-3.116755	3.270012
BSIdep	.5254682	.2680392	1.96	0.051	-.002317	1.053253
BSIanx	.0483793	.2907565	0.17	0.868	-.5241376	.6208962
healthef	.0869073	.0240211	3.62	0.000	.0396083	.1342063
crhtw1	2.73004	.8183016	3.34	0.001	1.118755	4.341324
_cons	-22.83294	13.74006	-1.66	0.098	-49.88795	4.222068
ptsdw3						
age	.2090005	.1251974	1.67	0.096	-.0375206	.4555216
educ						
3	4.742954	3.791619	1.25	0.212	-2.72297	12.20888
4	-.9345637	4.677678	-0.20	0.842	-10.14519	8.276064
5	2.645224	4.067777	0.65	0.516	-5.364471	10.65492
6	4.778665	3.748128	1.27	0.203	-2.601622	12.15895
7	-2.029033	6.705633	-0.30	0.762	-15.23283	11.17476
8	.8419554	8.45959	0.10	0.921	-15.81548	17.49939
marrw1						
1	-3.378602	11.12248	-0.30	0.762	-25.27944	18.52223
2	-.3675445	12.10904	-0.03	0.976	-24.21097	23.47588
3	-1.527753	11.4865	-0.13	0.894	-24.14536	21.08986
5	-5.119576	13.23664	-0.39	0.699	-31.18331	20.94416
marrw2						
1	-24.61126	16.70674	-1.47	0.142	-57.50782	8.285311
2	-26.14135	17.22701	-1.52	0.130	-60.06236	7.779665
3	-22.68701	16.76093	-1.35	0.177	-55.69028	10.31626
4	-22.40469	18.08843	-1.24	0.217	-58.02188	13.21251
5	-22.58323	17.89419	-1.26	0.208	-57.81796	12.65151

6	-22.83657	17.98857	-1.27	0.205	-58.25714	12.58399
marrw3						
2	-1.044106	3.308946	-0.32	0.753	-7.559617	5.471405
3	-.19582	2.586584	-0.08	0.940	-5.288958	4.897318
5	-3.778226	3.769911	-1.00	0.317	-11.20141	3.644954
6	-6.258289	4.854865	-1.29	0.199	-15.81781	3.30123
childw1	-.2752986	1.602096	-0.17	0.864	-3.429921	2.879324
childw2	-2.558599	1.731684	-1.48	0.141	-5.968389	.8511908
childw3	1.150207	1.189254	0.97	0.334	-1.191505	3.491919
emplw1						
1	7.151848	17.27067	0.41	0.679	-26.85513	41.15883
2	11.72014	17.37079	0.67	0.500	-22.48399	45.92426
3	-2.206656	20.35439	-0.11	0.914	-42.28567	37.87236
4	9.791588	21.62174	0.45	0.651	-32.7829	52.36608
5	8.47269	17.23864	0.49	0.623	-25.47123	42.41661
emplw2						
1	-1.390877	4.006774	-0.35	0.729	-9.280455	6.498701
2	-1.431189	4.08087	-0.35	0.726	-9.466666	6.604287
3	0	(omitted)				
4	-11.38989	7.129189	-1.60	0.111	-25.42769	2.647909
5	0	(omitted)				
emplw3						
2	.5537141	2.248976	0.25	0.806	-3.874654	4.982082
4	16.43099	4.126324	3.98	0.000	8.306012	24.55597
5	9.282131	5.318094	1.75	0.082	-1.189513	19.75377
inc1w1	-7.814599	9.44176	-0.83	0.409	-26.40599	10.77679
inc2w1	-8.136713	9.423909	-0.86	0.389	-26.69295	10.41953
inc3w1	-7.264892	9.486123	-0.77	0.444	-25.94364	11.41385
inc4w1	-1.614201	9.674873	-0.17	0.868	-20.6646	17.4362
inc1w2	7.283338	11.2203	0.65	0.517	-14.8101	29.37677
inc2w2	8.624572	11.02204	0.78	0.435	-13.07848	30.32762
inc3w2	6.402235	10.85282	0.59	0.556	-14.96761	27.77208
inc4w2	6.341181	11.54621	0.55	0.583	-16.39399	29.07635
inc1w3	2.431876	8.952121	0.27	0.786	-15.19539	20.05914
inc2w3	-2.052201	8.890567	-0.23	0.818	-19.55826	15.45386
inc3w3	-1.839143	8.854018	-0.21	0.836	-19.27323	15.59495
inc4w3	-1.448364	9.41315	-0.15	0.878	-19.98342	17.08669
occ1w1	-48.62188	8.050157	-6.04	0.000	-64.47312	-32.77064
occ2w1	-50.7422	7.818057	-6.49	0.000	-66.13642	-35.34798
occ3w1	-45.8444	8.572728	-5.35	0.000	-62.72461	-28.96418
occ4w1	-47.90807	8.416348	-5.69	0.000	-64.48036	-31.33577
occ5w1	-44.38041	8.884752	-5.00	0.000	-61.87502	-26.88581
occ6w1	-10.93728	9.013588	-1.21	0.226	-28.68557	6.811014

occ7w1	-48.00161	10.11113	-4.75	0.000	-67.91104	-28.09219
occ8w1	-46.90386	7.8481	-5.98	0.000	-62.35724	-31.45048
occ1w2	44.81688	10.25396	4.37	0.000	24.62623	65.00753
occ2w2	40.99928	9.875087	4.15	0.000	21.55464	60.44392
occ3w2	38.42027	10.68524	3.60	0.000	17.38039	59.46015
occ4w2	45.54421	10.58605	4.30	0.000	24.69964	66.38878
occ5w2	43.99805	10.60657	4.15	0.000	23.11309	64.88302
occ6w2	0	(omitted)				
occ7w2	46.07323	11.66365	3.95	0.000	23.10681	69.03965
occ8w2	42.72728	9.9977	4.27	0.000	23.04121	62.41335
occ1w3	14.57818	4.468329	3.26	0.001	5.779775	23.37659
occ2w3	15.19153	4.468315	3.40	0.001	6.393154	23.98991
occ3w3	14.52958	4.851137	3.00	0.003	4.977398	24.08175
occ4w3	10.16896	4.814962	2.11	0.036	.6880154	19.64991
occ5w3	12.40044	5.112283	2.43	0.016	2.334045	22.46683
occ6w3	17.6468	8.452376	2.09	0.038	1.003565	34.29003
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	-.0126733	.0206419	-0.61	0.540	-.0533184	.0279718
radchw1	-.0505459	.0174201	-2.90	0.004	-.0848471	-.0162447
injothr	1.996836	1.582336	1.26	0.208	-1.118878	5.112549
BSIdep	.5644152	.2615199	2.16	0.032	.0494669	1.079363
BSIanx	.2087656	.2836846	0.74	0.462	-.3498264	.7673576
healthef	.0473322	.0234368	2.02	0.044	.0011837	.0934808
crhtw1	2.64555	.7983986	3.31	0.001	1.073456	4.217645
_cons	-3.521169	13.40587	-0.26	0.793	-29.91814	22.8758

```
109 .
110 .
111 . // trimmed male multivarate regression model
112 . mvreg ptsdw1 ptsdw2 ptsdw3 = i.emplw3  inc4w1 airw1 radchw1 injothr BSIanx B
    > SIdep healthef crhtw1 if gender==1
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
ptsdw1	**339**	**12**	**33.84412**	**0.2706**	**11.02873**	**0.0000**
ptsdw2	**339**	**12**	**11.11676**	**0.2538**	**10.11173**	**0.0000**
ptsdw3	**339**	**12**	**10.65981**	**0.2367**	**9.216002**	**0.0000**

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ptsdw1						
emplw3						
2	-.0113905	6.406339	-0.00	0.999	-12.61423	12.59145
4	-6.659418	4.819431	-1.38	0.168	-16.14042	2.821585
5	-13.83359	12.2725	-1.13	0.260	-37.97662	10.30943
inc4w1	-1.821212	6.572141	-0.28	0.782	-14.75022	11.1078
airw1	.2350042	.0587181	4.00	0.000	.1194912	.3505172
radchw1	-.1901568	.0526722	-3.61	0.000	-.2937759	-.0865377
injothr	5.54087	4.429199	1.25	0.212	-3.172451	14.25419
BSIanx	1.144396	.8549514	1.34	0.182	-.5375029	2.826295
BSIdep	.0121899	.7858275	0.02	0.988	-1.533725	1.558105
healthef	.0991087	.069477	1.43	0.155	-.0375696	.235787
crhtw1	12.00601	2.357078	5.09	0.000	7.36906	16.64296
_cons	4.089466	8.827384	0.46	0.643	-13.27616	21.45509
ptsdw2						
emplw3						
2	1.630785	2.104287	0.77	0.439	-2.508862	5.770433
4	4.669949	1.583036	2.95	0.003	1.555729	7.784169
5	3.821873	4.031143	0.95	0.344	-4.108373	11.75212
inc4w1	3.955105	2.158748	1.83	0.068	-.2916809	8.201891
airw1	.023443	.0192871	1.22	0.225	-.0144995	.0613854
radchw1	-.0764601	.0173012	-4.42	0.000	-.1104959	-.0424244
injothr	1.101504	1.454857	0.76	0.450	-1.760556	3.963564
BSIanx	.1672143	.2808254	0.60	0.552	-.3852381	.7196667
BSIdep	.533448	.2581204	2.07	0.040	.025662	1.041234
healthef	.0680506	.0228211	2.98	0.003	.0231559	.1129452
crhtw1	2.296706	.7742281	2.97	0.003	.7736095	3.819802
_cons	-4.507289	2.899526	-1.55	0.121	-10.21137	1.19679
ptsdw3						
emplw3						
2	.4506435	2.017791	0.22	0.823	-3.518846	4.420133
4	5.170559	1.517966	3.41	0.001	2.184348	8.15677
5	2.628076	3.865445	0.68	0.497	-4.976202	10.23235
inc4w1	3.784561	2.070014	1.83	0.068	-.287663	7.856785
airw1	.0052049	.0184943	0.28	0.779	-.031178	.0415878
radchw1	-.06379	.01659	-3.85	0.000	-.0964267	-.0311533
injothr	2.517006	1.395056	1.80	0.072	-.2274103	5.261422
BSIanx	.2469762	.2692822	0.92	0.360	-.282768	.7767203
BSIdep	.5836647	.2475104	2.36	0.019	.096751	1.070578
healthef	.0338223	.021883	1.55	0.123	-.009227	.0768716
crhtw1	2.289914	.7424038	3.08	0.002	.8294242	3.750405

_cons	-3.679208	2.780343	-1.32	0.187	-9.148823	1.790408

```
113 .
114 . // Full male multivariate regression model
115 . local demogs age i.educ i.marrw1 i.marrw2 i.marrw3 childw1 childw2 childw3 i
    > .emplw1 i.emplw2 ///
    >   i.emplw3 inc1w1-inc4w3 occ1w1-occ8w3

116 . mvreg ptsdw1 ptsdw2 ptsdw3 = `demogs' airw1 radchw1 injothr BSIdep BSIanx he
    > althef crhtw1 if gender==1
    note: 3.emplw2 omitted because of collinearity
    note: 5.emplw2 omitted because of collinearity
    note: occ6w2 omitted because of collinearity
    note: occ7w3 omitted because of collinearity
    note: occ8w3 omitted because of collinearity
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
ptsdw1	338	76	32.59707	0.4572	2.942886	0.0000
ptsdw2	338	76	10.2595	0.4887	3.338778	0.0000
ptsdw3	338	76	10.00996	0.4604	2.980376	0.0000

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ptsdw1						
age	.0652943	.4077007	0.16	0.873	-.7374927	.8680813
educ						
3	8.45106	12.34727	0.68	0.494	-15.86145	32.76357
4	9.633239	15.23269	0.63	0.528	-20.36083	39.62731
5	19.20168	13.24657	1.45	0.148	-6.881596	45.28496
6	-.7028323	12.20564	-0.06	0.954	-24.73647	23.3308
7	-1.306986	21.83665	-0.06	0.952	-44.30465	41.69068
8	-27.90554	27.54834	-1.01	0.312	-82.14988	26.33879
marrw1						
1	-10.54586	36.21996	-0.29	0.771	-81.86512	60.77341
2	8.831418	39.43265	0.22	0.823	-68.81382	86.47665
3	-2.628605	37.40538	-0.07	0.944	-76.28203	71.02482
5	-38.28629	43.10464	-0.89	0.375	-123.1619	46.58931
marrw2						
1	16.03065	54.40489	0.29	0.768	-91.09582	123.1571
2	16.45164	56.09913	0.29	0.770	-94.01089	126.9142
3	20.97518	54.58135	0.38	0.701	-86.49877	128.4491
4	28.60108	58.90431	0.49	0.628	-87.38501	144.5872
5	15.95701	58.27178	0.27	0.784	-98.78361	130.6976

6	6.088073	58.57911	0.10	0.917	-109.2577	121.4338
marrw3						
2	4.518975	10.77546	0.42	0.675	-16.69855	25.7365
3	3.616603	8.423116	0.43	0.668	-12.96902	20.20222
5	-7.22613	12.27658	-0.59	0.557	-31.39944	16.94718
6	9.502402	15.80969	0.60	0.548	-21.62782	40.63263
childw1	-3.183885	5.217167	-0.61	0.542	-13.4568	7.089028
childw2	-.0382252	5.639166	-0.01	0.995	-11.14208	11.06563
childw3	-2.566409	3.872762	-0.66	0.508	-10.19211	5.059291
emplw1						
1	37.68569	56.2413	0.67	0.503	-73.0568	148.4282
2	57.20176	56.56735	1.01	0.313	-54.18273	168.5863
3	35.09998	66.28334	0.53	0.597	-95.41587	165.6158
4	-12.36829	70.4104	-0.18	0.861	-151.0106	126.274
5	41.1689	56.13701	0.73	0.464	-69.36821	151.706
emplw2						
1	2.131723	13.04791	0.16	0.870	-23.5604	27.82384
2	-6.196227	13.2892	-0.47	0.641	-32.36346	19.97101
3	0	(omitted)				
4	9.176578	23.21594	0.40	0.693	-36.537	54.89016
5	0	(omitted)				
emplw3						
2	-2.730603	7.323707	-0.37	0.710	-17.15142	11.69021
4	-4.464715	13.43722	-0.33	0.740	-30.92341	21.99398
5	-21.36273	17.31818	-1.23	0.218	-55.46325	12.7378
inc1w1	.6244982	30.74675	0.02	0.984	-59.91768	61.16668
inc2w1	2.291404	30.68861	0.07	0.941	-58.13631	62.71912
inc3w1	3.363511	30.89121	0.11	0.913	-57.46313	64.19015
inc4w1	7.436507	31.50587	0.24	0.814	-54.60043	69.47345
inc1w2	28.78466	36.53848	0.79	0.432	-43.1618	100.7311
inc2w2	25.86967	35.89286	0.72	0.472	-44.80551	96.54485
inc3w2	33.63758	35.34181	0.95	0.342	-35.95255	103.2277
inc4w2	3.728556	37.5998	0.10	0.921	-70.3077	77.76481
inc1w3	.528931	29.15226	0.02	0.986	-56.8736	57.93146
inc2w3	-2.745049	28.9518	-0.09	0.925	-59.75288	54.26278
inc3w3	-13.75836	28.83279	-0.48	0.634	-70.53184	43.01511
inc4w3	7.111589	30.65358	0.23	0.817	-53.24713	67.47031
occ1w1	-36.72455	26.21504	-1.40	0.162	-88.34353	14.89443
occ2w1	-21.72353	25.45922	-0.85	0.394	-71.85425	28.40719
occ3w1	-33.88273	27.91677	-1.21	0.226	-88.85252	21.08706
occ4w1	-36.60089	27.40753	-1.34	0.183	-90.56795	17.36617
occ5w1	-16.70638	28.93287	-0.58	0.564	-73.67693	40.26417
occ6w1	-51.76305	29.35242	-1.76	0.079	-109.5597	6.033621

occ7w1	3.60118	32.92653	0.11	0.913	-61.23313	68.43549
occ8w1	-31.11893	25.55705	-1.22	0.224	-81.44229	19.20443
occ1w2	3.41252	33.39163	0.10	0.919	-62.3376	69.16264
occ2w2	-9.298653	32.15786	-0.29	0.773	-72.6194	54.02209
occ3w2	-4.910453	34.7961	-0.14	0.888	-73.42604	63.60514
occ4w2	-7.219287	34.47309	-0.21	0.834	-75.09887	60.66029
occ5w2	-5.600562	34.5399	-0.16	0.871	-73.61169	62.41056
occ6w2	0	(omitted)				
occ7w2	-32.24874	37.98224	-0.85	0.397	-107.038	42.54056
occ8w2	-3.355426	32.55715	-0.10	0.918	-67.46239	60.75154
occ1w3	8.877136	14.55095	0.61	0.542	-19.77455	37.52882
occ2w3	7.470262	14.55091	0.51	0.608	-21.18134	36.12186
occ3w3	-2.413332	15.79755	-0.15	0.879	-33.51965	28.69298
occ4w3	2.148485	15.67975	0.14	0.891	-28.72587	33.02284
occ5w3	-8.157986	16.64796	-0.49	0.625	-40.93882	24.62285
occ6w3	24.39979	27.52485	0.89	0.376	-29.79829	78.59787
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	.1676251	.0672196	2.49	0.013	.0352657	.2999845
radchw1	-.1472231	.0567279	-2.60	0.010	-.2589236	-.0355225
injothr	9.976798	5.152818	1.94	0.054	-.1694088	20.123
BSIdep	.1936098	.8516298	0.23	0.820	-1.4833	1.87052
BSIanx	.7232534	.9238086	0.78	0.434	-1.095781	2.542288
healthef	.1443113	.0763212	1.89	0.060	-.0059697	.2945924
crhtw1	12.91632	2.599956	4.97	0.000	7.796855	18.03579
_cons	-52.87153	43.65574	-1.21	0.227	-138.8323	33.08922
ptsdw2						
age	.2310586	.1283184	1.80	0.073	-.0216079	.4837252
educ						
3	3.165499	3.886139	0.81	0.416	-4.48654	10.81754
4	-2.721828	4.794286	-0.57	0.571	-12.16206	6.718408
5	2.521853	4.169181	0.60	0.546	-5.687513	10.73122
6	1.326255	3.841563	0.35	0.730	-6.238012	8.890523
7	-3.602441	6.872795	-0.52	0.601	-17.13539	9.930504
8	-9.410264	8.670475	-1.09	0.279	-26.48295	7.66242
marrw1						
1	-6.82498	11.39975	-0.60	0.550	-29.27177	15.62181
2	-2.901938	12.4109	-0.23	0.815	-27.33974	21.53587
3	-1.106922	11.77285	-0.09	0.925	-24.28836	22.07451
5	-4.848846	13.56661	-0.36	0.721	-31.56232	21.86462
marrw2						
1	-.1126359	17.12322	-0.01	0.995	-33.82927	33.604
2	1.584356	17.65646	0.09	0.929	-33.18226	36.35097
3	.3527078	17.17876	0.02	0.984	-33.47329	34.1787
4	-6.879523	18.53935	-0.37	0.711	-43.38461	29.62556

5	-4.229833	18.34027	-0.23	0.818	-40.34292	31.88325
6	-.3580644	18.437	-0.02	0.985	-36.66161	35.94548
marrw3						
2	-1.242089	3.391433	-0.37	0.714	-7.920023	5.435845
3	-1.193206	2.651064	-0.45	0.653	-6.413309	4.026898
5	-4.044118	3.86389	-1.05	0.296	-11.65235	3.564112
6	-.1114104	4.97589	-0.02	0.982	-9.909235	9.686414
childw1	-1.822153	1.642034	-1.11	0.268	-5.055416	1.41111
childw2	-2.74153	1.774853	-1.54	0.124	-6.236321	.7532612
childw3	1.529954	1.2189	1.26	0.211	-.870133	3.930042
emplw1						
1	-1.154357	17.7012	-0.07	0.948	-36.00908	33.70037
2	3.622412	17.80382	0.20	0.839	-31.43438	38.6792
3	-6.827845	20.8618	-0.33	0.744	-47.90598	34.25029
4	5.114071	22.16074	0.23	0.818	-38.52174	48.74989
5	-1.352957	17.66838	-0.08	0.939	-36.14305	33.43713
emplw2						
1	2.504313	4.106658	0.61	0.543	-5.581941	10.59057
2	-1.102691	4.1826	-0.26	0.792	-9.338481	7.133098
3	0	(omitted)				
4	-6.491405	7.30691	-0.89	0.375	-20.87915	7.896337
5	0	(omitted)				
emplw3						
2	2.267587	2.30504	0.98	0.326	-2.271174	6.806348
4	14.8827	4.229187	3.52	0.001	6.555181	23.21023
5	12.0808	5.450666	2.22	0.028	1.348114	22.81349
inc1w1	1.942021	9.67713	0.20	0.841	-17.11283	20.99687
inc2w1	-.6601056	9.658833	-0.07	0.946	-19.67893	18.35871
inc3w1	1.438328	9.722599	0.15	0.883	-17.70605	20.58271
inc4w1	7.591937	9.916054	0.77	0.445	-11.93337	27.11724
inc1w2	-3.495585	11.5	-0.30	0.761	-26.13978	19.14861
inc2w2	-.411374	11.2968	-0.04	0.971	-22.65545	21.8327
inc3w2	-.530566	11.12336	-0.05	0.962	-22.43313	21.372
inc4w2	-10.7932	11.83404	-0.91	0.363	-34.09512	12.50873
inc1w3	3.128384	9.175285	0.34	0.733	-14.9383	21.19507
inc2w3	1.022405	9.112196	0.11	0.911	-16.92005	18.96486
inc3w3	-1.670245	9.074736	-0.18	0.854	-19.53894	16.19845
inc4w3	5.174347	9.647806	0.54	0.592	-13.82276	24.17145
occ1w1	-45.70994	8.250836	-5.54	0.000	-61.95633	-29.46355
occ2w1	-51.295	8.01295	-6.40	0.000	-67.07298	-35.51703
occ3w1	-46.66025	8.786434	-5.31	0.000	-63.96126	-29.35924
occ4w1	-47.35592	8.626156	-5.49	0.000	-64.34134	-30.37051
occ5w1	-47.50986	9.106237	-5.22	0.000	-65.44058	-29.57913

occ6w1	-9.282865	9.238285	-1.00	0.316	-27.4736	8.907869
occ7w1	-51.30649	10.36319	-4.95	0.000	-71.71223	-30.90075
occ8w1	-45.59506	8.043742	-5.67	0.000	-61.43367	-29.75645
occ1w2	45.63725	10.50957	4.34	0.000	24.94327	66.33122
occ2w2	45.8119	10.12126	4.53	0.000	25.88254	65.74126
occ3w2	43.42398	10.95161	3.97	0.000	21.85961	64.98836
occ4w2	50.28913	10.84995	4.63	0.000	28.92493	71.65333
occ5w2	46.37659	10.87097	4.27	0.000	24.97099	67.78219
occ6w2	0	(omitted)				
occ7w2	47.16876	11.95441	3.95	0.000	23.62982	70.7077
occ8w2	47.3328	10.24693	4.62	0.000	27.15599	67.50962
occ1w3	13.91456	4.579718	3.04	0.003	4.896821	22.9323
occ2w3	15.12116	4.579704	3.30	0.001	6.10345	24.13887
occ3w3	13.14072	4.972069	2.64	0.009	3.350423	22.93102
occ4w3	8.27188	4.934992	1.68	0.095	-1.445414	17.98917
occ5w3	10.80197	5.239725	2.06	0.040	.4846328	21.1193
occ6w3	15.60603	8.663082	1.80	0.073	-1.4521	32.66415
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	-.0011224	.0211565	-0.05	0.958	-.0427808	.040536
radchw1	-.0530823	.0178543	-2.97	0.003	-.0882386	-.0179261
injothr	.0766283	1.621781	0.05	0.962	-3.116755	3.270012
BSIdep	.5254682	.2680392	1.96	0.051	-.002317	1.053253
BSIanx	.0483793	.2907565	0.17	0.868	-.5241376	.6208962
healthef	.0869073	.0240211	3.62	0.000	.0396083	.1342063
crhtw1	2.73004	.8183016	3.34	0.001	1.118755	4.341324
_cons	-22.83294	13.74006	-1.66	0.098	-49.88795	4.222068
ptsdw3						
age	.2090005	.1251974	1.67	0.096	-.0375206	.4555216
educ						
3	4.742954	3.791619	1.25	0.212	-2.72297	12.20888
4	-.9345637	4.677678	-0.20	0.842	-10.14519	8.276064
5	2.645224	4.067777	0.65	0.516	-5.364471	10.65492
6	4.778665	3.748128	1.27	0.203	-2.601622	12.15895
7	-2.029033	6.705633	-0.30	0.762	-15.23283	11.17476
8	.8419554	8.45959	0.10	0.921	-15.81548	17.49939
marrw1						
1	-3.378602	11.12248	-0.30	0.762	-25.27944	18.52223
2	-.3675445	12.10904	-0.03	0.976	-24.21097	23.47588
3	-1.527753	11.4865	-0.13	0.894	-24.14536	21.08986
5	-5.119576	13.23664	-0.39	0.699	-31.18331	20.94416
marrw2						
1	-24.61126	16.70674	-1.47	0.142	-57.50782	8.285311
2	-26.14135	17.22701	-1.52	0.130	-60.06236	7.779665
3	-22.68701	16.76093	-1.35	0.177	-55.69028	10.31626

4	-22.40469	18.08843	-1.24	0.217	-58.02188	13.21251
5	-22.58323	17.89419	-1.26	0.208	-57.81796	12.65151
6	-22.83657	17.98857	-1.27	0.205	-58.25714	12.58399
marrw3						
2	-1.044106	3.308946	-0.32	0.753	-7.559617	5.471405
3	-.19582	2.586584	-0.08	0.940	-5.288958	4.897318
5	-3.778226	3.769911	-1.00	0.317	-11.20141	3.644954
6	-6.258289	4.854865	-1.29	0.199	-15.81781	3.30123
childw1	-.2752986	1.602096	-0.17	0.864	-3.429921	2.879324
childw2	-2.558599	1.731684	-1.48	0.141	-5.968389	.8511908
childw3	1.150207	1.189254	0.97	0.334	-1.191505	3.491919
emplw1						
1	7.151848	17.27067	0.41	0.679	-26.85513	41.15883
2	11.72014	17.37079	0.67	0.500	-22.48399	45.92426
3	-2.206656	20.35439	-0.11	0.914	-42.28567	37.87236
4	9.791588	21.62174	0.45	0.651	-32.7829	52.36608
5	8.47269	17.23864	0.49	0.623	-25.47123	42.41661
emplw2						
1	-1.390877	4.006774	-0.35	0.729	-9.280455	6.498701
2	-1.431189	4.08087	-0.35	0.726	-9.466666	6.604287
3	0	(omitted)				
4	-11.38989	7.129189	-1.60	0.111	-25.42769	2.647909
5	0	(omitted)				
emplw3						
2	.5537141	2.248976	0.25	0.806	-3.874654	4.982082
4	16.43099	4.126324	3.98	0.000	8.306012	24.55597
5	9.282131	5.318094	1.75	0.082	-1.189513	19.75377
inc1w1	-7.814599	9.44176	-0.83	0.409	-26.40599	10.77679
inc2w1	-8.136713	9.423909	-0.86	0.389	-26.69295	10.41953
inc3w1	-7.264892	9.486123	-0.77	0.444	-25.94364	11.41385
inc4w1	-1.614201	9.674873	-0.17	0.868	-20.6646	17.4362
inc1w2	7.283338	11.2203	0.65	0.517	-14.8101	29.37677
inc2w2	8.624572	11.02204	0.78	0.435	-13.07848	30.32762
inc3w2	6.402235	10.85282	0.59	0.556	-14.96761	27.77208
inc4w2	6.341181	11.54621	0.55	0.583	-16.39399	29.07635
inc1w3	2.431876	8.952121	0.27	0.786	-15.19539	20.05914
inc2w3	-2.052201	8.890567	-0.23	0.818	-19.55826	15.45386
inc3w3	-1.839143	8.854018	-0.21	0.836	-19.27323	15.59495
inc4w3	-1.448364	9.41315	-0.15	0.878	-19.98342	17.08669
occ1w1	-48.62188	8.050157	-6.04	0.000	-64.47312	-32.77064
occ2w1	-50.7422	7.818057	-6.49	0.000	-66.13642	-35.34798
occ3w1	-45.8444	8.572728	-5.35	0.000	-62.72461	-28.96418
occ4w1	-47.90807	8.416348	-5.69	0.000	-64.48036	-31.33577

occ5w1	-44.38041	8.884752	-5.00	0.000	-61.87502	-26.88581
occ6w1	-10.93728	9.013588	-1.21	0.226	-28.68557	6.811014
occ7w1	-48.00161	10.11113	-4.75	0.000	-67.91104	-28.09219
occ8w1	-46.90386	7.8481	-5.98	0.000	-62.35724	-31.45048
occ1w2	44.81688	10.25396	4.37	0.000	24.62623	65.00753
occ2w2	40.99928	9.875087	4.15	0.000	21.55464	60.44392
occ3w2	38.42027	10.68524	3.60	0.000	17.38039	59.46015
occ4w2	45.54421	10.58605	4.30	0.000	24.69964	66.38878
occ5w2	43.99805	10.60657	4.15	0.000	23.11309	64.88302
occ6w2	0	(omitted)				
occ7w2	46.07323	11.66365	3.95	0.000	23.10681	69.03965
occ8w2	42.72728	9.9977	4.27	0.000	23.04121	62.41335
occ1w3	14.57818	4.468329	3.26	0.001	5.779775	23.37659
occ2w3	15.19153	4.468315	3.40	0.001	6.393154	23.98991
occ3w3	14.52958	4.851137	3.00	0.003	4.977398	24.08175
occ4w3	10.16896	4.814962	2.11	0.036	.6880154	19.64991
occ5w3	12.40044	5.112283	2.43	0.016	2.334045	22.46683
occ6w3	17.6468	8.452376	2.09	0.038	1.003565	34.29003
occ7w3	0	(omitted)				
occ8w3	0	(omitted)				
airw1	-.0126733	.0206419	-0.61	0.540	-.0533184	.0279718
radchw1	-.0505459	.0174201	-2.90	0.004	-.0848471	-.0162447
injothr	1.996836	1.582336	1.26	0.208	-1.118878	5.112549
BSIdep	.5644152	.2615199	2.16	0.032	.0494669	1.079363
BSIanx	.2087656	.2836846	0.74	0.462	-.3498264	.7673576
healthef	.0473322	.0234368	2.02	0.044	.0011837	.0934808
crhtw1	2.64555	.7983986	3.31	0.001	1.073456	4.217645
_cons	-3.521169	13.40587	-0.26	0.793	-29.91814	22.8758

```
117 .
118 .
119 . //  trimmed female multivariate regression model
120 .
121 . mvreg ptsdw1 ptsdw2 ptsdw3 =   inc4w1  airw1 injothr BSIanx  crhtw1 if gende
    > r==2
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
ptsdw1	**361**	**6**	**31.81516**	**0.0998**	**7.867107**	**0.0000**
ptsdw2	**361**	**6**	**7.921598**	**0.0970**	**7.630115**	**0.0000**
ptsdw3	**361**	**6**	**7.974865**	**0.1370**	**11.2747**	**0.0000**

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
ptsdw1						
inc4w1	.8753648	7.747675	0.11	0.910	-14.36175	16.11248
airw1	.1195544	.0520178	2.30	0.022	.0172526	.2218562
injothr	-2.93559	4.834838	-0.61	0.544	-12.44411	6.572935
BSIanx	2.813658	.4711959	5.97	0.000	1.886972	3.740345
crhtw1	1.555315	1.923495	0.81	0.419	-2.227562	5.338193
_cons	-12.9657	6.545948	-1.98	0.048	-25.83941	-.0919906
ptsdw2						
inc4w1	4.961738	1.929079	2.57	0.011	1.167878	8.755598
airw1	.0180924	.0129518	1.40	0.163	-.0073795	.0435643
injothr	1.365859	1.203817	1.13	0.257	-1.001651	3.733369
BSIanx	.5736461	.1173222	4.89	0.000	.3429122	.80438
crhtw1	.7742437	.4789274	1.62	0.107	-.1676479	1.716135
_cons	-4.33193	1.629863	-2.66	0.008	-7.537332	-1.126529
ptsdw3						
inc4w1	6.921718	1.942051	3.56	0.000	3.102347	10.74109
airw1	.0115745	.0130389	0.89	0.375	-.0140687	.0372177
injothr	2.573177	1.211912	2.12	0.034	.1897471	4.956606
BSIanx	.6921086	.1181111	5.86	0.000	.4598232	.924394
crhtw1	-.2735022	.4821478	-0.57	0.571	-1.221727	.6747229
_cons	-4.674755	1.640823	-2.85	0.005	-7.901711	-1.447799

```
122 .
123 . // Full male model  sig main effect
124 . set showbaselevels

125 . regress MiPTSD age i.marrw2 i.marrw3 childw1 inc4w1 airw1 airw2 airw3 radchw
    > 1 ///
    >    radchw2 radchw3 injothr BSIanx BSIdep relselfr ///
    >    healthef i.sector crhtw1 if gender==1, vce(cluster id)

Linear regression                               Number of obs =     338
                                                F( 29,   337) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.5472
                                                Root MSE      =  8.4109
```

(Std. Err. adjusted for **338** clusters in id)

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.1091791	.0801459	1.36	0.174	-.0484701	.2668283
marrw2						
1	6.2149	3.115333	1.99	0.047	.0869518	12.34285
2	5.537184	3.966739	1.40	0.164	-2.265505	13.33987
3	6.539504	3.251598	2.01	0.045	.1435187	12.93549
4	14.8022	4.008059	3.69	0.000	6.91823	22.68616
5	5.410028	4.674814	1.16	0.248	-3.785464	14.60552
6	11.21927	6.874484	1.63	0.104	-2.303038	24.74157
marrw3						
2	-1.683829	2.241364	-0.75	0.453	-6.092655	2.724998
3	-.0270861	1.578352	-0.02	0.986	-3.131749	3.077577
5	-3.235415	2.417974	-1.34	0.182	-7.991638	1.520807
6	-2.371841	3.970662	-0.60	0.551	-10.18225	5.438564
childw1	-.7231683	.8932318	-0.81	0.419	-2.480181	1.033844
inc4w1	3.885624	1.786077	2.18	0.030	.3723589	7.398888
airw1	.0476542	.0168174	2.83	0.005	.0145739	.0807346
airw2	-.0155555	.0267894	-0.58	0.562	-.0682511	.0371401
airw3	-.0261086	.0229065	-1.14	0.255	-.0711663	.0189492
radchw1	-.0283403	.0192272	-1.47	0.141	-.0661607	.0094801
radchw2	-.0133153	.0458134	-0.29	0.772	-.1034316	.0768009
radchw3	-.0361871	.0406907	-0.89	0.374	-.1162269	.0438527
injothr	4.225543	1.055368	4.00	0.000	2.149605	6.301481
BSIanx	1.100249	.2369373	4.64	0.000	.6341871	1.566312
BSIdep	.823542	.2326279	3.54	0.000	.3659564	1.281128
relselfr	4.964519	15.30107	0.32	0.746	-25.13313	35.06216
healthef	.0500498	.0215382	2.32	0.021	.0076836	.0924161
sector						
2	.0955233	4.550332	0.02	0.983	-8.855109	9.046155
3	.1872184	3.309873	0.06	0.955	-6.323396	6.697833
4	-2.862056	3.453724	-0.83	0.408	-9.655629	3.931517
5	5.710966	3.716135	1.54	0.125	-1.598777	13.02071
6	4.908595	4.050679	1.21	0.226	-3.059205	12.8764
crhtw1	2.711253	.7578778	3.58	0.000	1.220486	4.20202
_cons	16.36812	6.992514	2.34	0.020	2.613647	30.12259

```
126 .
127 . // Trimmed male model
128 . set showbaselevels

129 . regress MiPTSD  marrw11 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
>      occ8w2 airw1  radchw1 injothr anxagw1 anxagw2 depagw1 depagw2 PTSDw1 PT
> SDw2  ///
>     healthef crhtw1 if gender==1, vce(cluster id)

Linear regression                               Number of obs =     339
                                                F( 24,   338) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.5102
                                                Root MSE      =  8.6642

                                   (Std. Err. adjusted for 339 clusters in id)
------------------------------------------------------------------------------
             |               Robust
      MiPTSD |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     marrw11 |  -2.188698    1.33479    -1.64   0.102    -4.814241    .4368439
             |
      marrw2 |
          1  |   6.24635   2.723444     2.29   0.022     .8893172    11.60338
          2  |  4.877014   3.270689     1.49   0.137    -1.556456    11.31048
          3  |  6.188568   2.394776     2.58   0.010     1.478026    10.89911
          4  |  10.27922   3.832278     2.68   0.008     2.741104    17.81734
          5  |  10.01666   4.662052     2.15   0.032     .8463671    19.18695
          6  |  12.77898   9.185847     1.39   0.165    -5.289643    30.84761
             |
       occ1w1 |   -1.4465   1.904388    -0.76   0.448    -5.192445    2.299445
       occ2w1 | -1.964074   1.974584    -0.99   0.321    -5.848094    1.919947
       occ1w2 |  1.975713   2.145161     0.92   0.358    -2.243834     6.19526
       occ2w2 |  1.035533   2.171528     0.48   0.634    -3.235879    5.306944
       occ3w2 |  1.106289   2.249143     0.49   0.623    -3.317791    5.530369
       occ4w2 |  1.287651   2.034089     0.63   0.527    -2.713418    5.288719
       occ8w2 |  .1775306   2.000134     0.09   0.929    -3.756747    4.111808
        airw1 |  .0047002   .0169325     0.28   0.781    -.0286061    .0380066
      radchw1 |  -.030431   .0136216    -2.23   0.026    -.0572247   -.0036373
      injothr |  3.500812   1.014296     3.45   0.001     1.505684    5.495941
      anxagw1 |  .0266297   .0266968     1.00   0.319     -.025883    .0791424
      anxagw2 |  .0326808    .076395     0.43   0.669    -.1175886    .1829503
      depagw1 |   .040214   .0285685     1.41   0.160    -.0159806    .0964085
      depagw2 |  .0713408   .0639669     1.12   0.266    -.0544825    .1971641
       PTSDw1 |  .0399857   .0217061     1.84   0.066    -.0027103    .0826817
       PTSDw2 |  .1674753   .0638744     2.62   0.009     .0418338    .2931167
     healthef |  .0437509   .0199579     2.19   0.029     .0044936    .0830083
       crhtw1 |  1.329444   .6786417     1.96   0.051    -.0054496    2.664337
        _cons |  33.53686   3.072292    10.92   0.000     27.49364    39.58008
------------------------------------------------------------------------------
```

```
130 .
131 . // Full female model sig main effect
132 . regress MiPTSD  marrw11 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
>      occ8w2 airw1  radchw1 injothr anxagw1 anxagw2 depagw1 depagw2 PTSDw1 PT
> SDw2  ///
>     healthef crhtw1 if gender==1, vce(cluster id)

Linear regression                               Number of obs =     339
                                                F( 24,   338) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.5102
                                                Root MSE      =  8.6642

                                   (Std. Err. adjusted for 339 clusters in id)
------------------------------------------------------------------------------
             |               Robust
      MiPTSD |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     marrw11 |  -2.188698    1.33479    -1.64   0.102    -4.814241    .4368439
             |
      marrw2 |
          1  |   6.24635   2.723444     2.29   0.022     .8893172    11.60338
          2  |  4.877014   3.270689     1.49   0.137    -1.556456    11.31048
          3  |  6.188568   2.394776     2.58   0.010     1.478026    10.89911
          4  |  10.27922   3.832278     2.68   0.008     2.741104    17.81734
          5  |  10.01666   4.662052     2.15   0.032     .8463671    19.18695
          6  |  12.77898   9.185847     1.39   0.165    -5.289643    30.84761
             |
       occ1w1 |   -1.4465   1.904388    -0.76   0.448    -5.192445    2.299445
       occ2w1 |  -1.964074   1.974584    -0.99   0.321    -5.848094    1.919947
       occ1w2 |   1.975713   2.145161     0.92   0.358    -2.243834     6.19526
       occ2w2 |   1.035533   2.171528     0.48   0.634    -3.235879    5.306944
       occ3w2 |   1.106289   2.249143     0.49   0.623    -3.317791    5.530369
       occ4w2 |   1.287651   2.034089     0.63   0.527    -2.713418    5.288719
       occ8w2 |   .1775306   2.000134     0.09   0.929    -3.756747    4.111808
        airw1 |   .0047002   .0169325     0.28   0.781    -.0286061    .0380066
      radchw1 |   -.030431   .0136216    -2.23   0.026    -.0572247   -.0036373
      injothr |   3.500812   1.014296     3.45   0.001     1.505684    5.495941
      anxagw1 |   .0266297   .0266968     1.00   0.319     -.025883    .0791424
      anxagw2 |   .0326808    .076395     0.43   0.669    -.1175886    .1829503
      depagw1 |    .040214   .0285685     1.41   0.160    -.0159806    .0964085
      depagw2 |   .0713408   .0639669     1.12   0.266    -.0544825    .1971641
       PTSDw1 |   .0399857   .0217061     1.84   0.066    -.0027103    .0826817
       PTSDw2 |   .1674753   .0638744     2.62   0.009     .0418338    .2931167
     healthef |   .0437509   .0199579     2.19   0.029     .0044936    .0830083
       crhtw1 |   1.329444   .6786417     1.96   0.051    -.0054496    2.664337
        _cons |   33.53686   3.072292    10.92   0.000     27.49364    39.58008
------------------------------------------------------------------------------
```

```
133 .
134 . local demogs age i.educ   ///
    >   i.emplw3 inc1w3-inc4w3 occ1w2-occ8w3

135 . set more off

136 .
137 . regress MiPTSD `demogs'  injothr BSIanx BSIdep relselfr ///
    >    healthef crhtw1 if gender==2, vce(cluster id)

Linear regression                               Number of obs =     362
                                                F( 33,   361) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.4728
                                                Root MSE      =  9.2327

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

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.0502488	.0642135	0.78	0.434	-.0760308	.1765284
educ						
2	7.824926	2.953542	2.65	0.008	2.016616	13.63324
3	11.26955	3.270005	3.45	0.001	4.838895	17.7002
4	14.42489	3.406223	4.23	0.000	7.726355	21.12342
5	13.52343	3.00366	4.50	0.000	7.616563	19.4303
6	10.62282	2.868779	3.70	0.000	4.981203	16.26444
7	4.144434	4.538329	0.91	0.362	-4.780449	13.06932
emplw3						
2	2.432312	2.035357	1.20	0.233	-1.570333	6.434957
3	5.854351	3.475821	1.68	0.093	-.9810491	12.68975
4	4.153586	3.132757	1.33	0.186	-2.00716	10.31433
5	2.572525	2.863655	0.90	0.370	-3.059017	8.204066
inc1w3	4.964655	2.424058	2.05	0.041	.1976072	9.731703
inc2w3	4.723632	1.865166	2.53	0.012	1.055677	8.391586
inc3w3	3.898666	2.021646	1.93	0.055	-.0770171	7.874349
inc4w3	6.01322	2.914847	2.06	0.040	.2810062	11.74543
occ1w2	7.075529	1.580779	4.48	0.000	3.966836	10.18422
occ2w2	10.4231	3.512467	2.97	0.003	3.515627	17.33056
occ3w2	4.726024	2.620019	1.80	0.072	-.4263938	9.878441
occ4w2	9.565371	3.930337	2.43	0.015	1.836139	17.2946
occ5w2	9.072122	4.02432	2.25	0.025	1.158067	16.98618
occ6w2	10.8325	4.132123	2.62	0.009	2.70644	18.95855

occ7w2	7.456106	2.373359	3.14	0.002	2.78876	12.12345
occ8w2	5.658227	2.647741	2.14	0.033	.4512936	10.86516
occ1w3	-5.830224	1.811973	-3.22	0.001	-9.393572	-2.266876
occ2w3	-9.61282	3.451889	-2.78	0.006	-16.40116	-2.824483
occ3w3	-4.994549	3.121217	-1.60	0.110	-11.1326	1.143502
occ4w3	-7.383398	4.187963	-1.76	0.079	-15.61927	.8524694
occ5w3	-4.542986	5.20887	-0.87	0.384	-14.78653	5.700554
occ6w3	-6.762455	5.760536	-1.17	0.241	-18.09088	4.565968
occ7w3	-7.757961	3.443716	-2.25	0.025	-14.53023	-.9856963
occ8w3	-17.66271	4.956917	-3.56	0.000	-27.41078	-7.914653
injothr	4.64749	1.297788	3.58	0.000	2.095317	7.199663
BSIanx	1.307435	.2071739	6.31	0.000	.9000161	1.714855
BSIdep	.4902927	.1559024	3.14	0.002	.1837018	.7968836
relselfr	5.821054	2.651975	2.19	0.029	.6057937	11.03631
healthef	.0364296	.0173664	2.10	0.037	.0022777	.0705816
crhtw1	-.932488	.6512383	-1.43	0.153	-2.213185	.3482093
_cons	7.010912	4.481811	1.56	0.119	-1.802825	15.82465

```
138 .
139 . // trimmed female model  no significant main effect
140 .
141 . title "potential moderators"
```

```
*******************************************************************************
> *
*******************************************************************************
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                      potential moderators                            ****
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                                          26 Jul 2012    11:21:28  ****
> *
*******************************************************************************
> *
*******************************************************************************
> *
```

```
142 .
143 .
144 . // Trimmed male model
145 . set showbaselevels

146 . regress MiPTSD  marrw11 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
>      occ8w2 airw1  radchw1 injothr BSIanx BSIdep  ///
>     healthef crhtw1 if gender==1, vce(cluster id)

Linear regression                               Number of obs =     339
                                                F( 20,   338) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.5126
                                                Root MSE      =   8.588

                                   (Std. Err. adjusted for 339 clusters in id)
------------------------------------------------------------------------------
             |               Robust
      MiPTSD |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     marrw11 |   -3.69917   1.355988    -2.73   0.007    -6.366408   -1.031932
             |
      marrw2 |
          1  |   14.93768   2.500149     5.97   0.000     10.01987    19.85549
          2  |   14.76366   3.245953     4.55   0.000     8.378851    21.14848
          3  |   15.92636   2.005236     7.94   0.000     11.98204    19.87067
          4  |   22.32133   2.871905     7.77   0.000     16.67227    27.97039
          5  |   10.48137   3.960545     2.65   0.009     2.690947    18.27179
          6  |   19.02093   6.379827     2.98   0.003     6.471761    31.57009
             |
      occ1w1 |  -3.490328   1.669202    -2.09   0.037     -6.77366   -.2069956
      occ2w1 |  -3.333493   1.714247    -1.94   0.053    -6.705429    .0384442
      occ1w2 |    4.13909   1.858169     2.23   0.027     .4840587    7.794121
      occ2w2 |   4.207078   1.931395     2.18   0.030     .4080093    8.006147
      occ3w2 |   2.052336   2.366203     0.87   0.386    -2.602003    6.706675
      occ4w2 |   2.065244   2.086134     0.99   0.323    -2.038197    6.168685
      occ8w2 |   3.821917   2.041862     1.87   0.062    -.1944404    7.838275
       airw1 |   .0405391   .0162265     2.50   0.013     .0086214    .0724569
     radchw1 |  -.0578935   .0136334    -4.25   0.000    -.0847104   -.0310765
     injothr |    3.98173   .9593866     4.15   0.000     2.094609     5.86885
      BSIanx |   1.246141   .2418172     5.15   0.000     .7704853    1.721798
      BSIdep |   .8599627   .2421029     3.55   0.000     .3837445    1.336181
    healthef |   .0514048   .0193715     2.65   0.008     .0133009    .0895087
      crhtw1 |   2.225844   .6683531     3.33   0.001     .9111889      3.5405
       _cons |   9.717619   3.343422     2.91   0.004     3.141084    16.29415
------------------------------------------------------------------------------
```

```
147 . foreach xvar in marrw11 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
    >      occ8w2 airw1  radchw1 injothr BSIanx BSIdep  ///
    >     healthef crhtw1 {
      2.  foreach wvar in  marrw11 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
    >      occ8w2 airw1  radchw1 injothr BSIanx BSIdep  ///
    >     healthef crhtw1  {
      3.    cap gen `xvar'Xc1 = `xvar'*crhtw1
      4.    }
      5.    }

148 .
149 . cap gen radchw1Xhealthef = radchw1*healthef

150 . // Trimmed male moderator model
151 . regress MiPTSD i.marrw2 ///
    >      occ8w2 airw1  radchw1 injothr BSIanx BSIdep  ///
    >     healthef crhtw1 radchw1Xhealthef ///
    >     injothrXc1    ///
    >     if gender==1, vce(cluster id)

Linear regression                               Number of obs =     339
                                                F( 15,   338) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.5546
                                                Root MSE      =  8.1463

                                    (Std. Err. adjusted for 339 clusters in
> id)
------------------------------------------------------------------------------
> ----
             |               Robust
      MiPTSD |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Inter
> val]
-------------+----------------------------------------------------------------
> ----
      marrw2 |
          1  |   15.19538   2.045778     7.43   0.000     11.17132    19.2
> 1944
          2  |    15.3422   3.042512     5.04   0.000     9.357553    21.3
> 2684
          3  |   17.04739   1.689697    10.09   0.000     13.72374    20.3
> 7103
          4  |   25.03557   2.055594    12.18   0.000      20.9922    29.0
> 7894
          5  |   14.03628   3.409788     4.12   0.000     7.329206    20.7
> 4336
          6  |   23.21055   6.529182     3.55   0.000      10.3676     36.
> 0535
             |
```

```
            occ8w2 |   .5905334   1.293692     0.46   0.648    -1.954168    3.13
> 5235
             airw1 |   .0340698   .0156069     2.18   0.030     .0033709    .064
> 7688
           radchw1 |    .117905   .0357208     3.30   0.001      .047642     .18
> 8168
           injothr |   5.570789   1.071611     5.20   0.000     3.462922    7.67
> 8656
            BSIanx |   1.204177   .2235038     5.39   0.000     .7645432    1.64
> 3811
            BSIdep |   .9183206   .2202302     4.17   0.000     .4851261    1.35
> 1515
          healthef |    .189287   .0285942     6.62   0.000     .1330419     .24
> 5532
            crhtw1 |  -1.397745    .954407    -1.46   0.144     -3.27507    .479
> 5808
radchw1Xhealthef |  -.0024874   .0004566    -5.45   0.000    -.0033855   -.001
> 5893
       injothrXc1 |   4.233159   1.081137     3.92   0.000     2.106555    6.35
> 9763
            _cons |   -2.82663   3.648554    -0.77   0.439    -10.00336    4.35
> 0102
------------------+------------------------------------------------------------
> ----
```

```
152 .
153 .
154 .  //trimmed female moderator model
155 .
156 .  regress MiPTSD i.educ occ1w2-occ8w3 inc1w3-inc4w3 injothr healthef ///
>     relselfr BSIdep BSIanx  ///
>      if gender==2, vce(cluster id)

Linear regression                               Number of obs =     363
                                                F( 28,   362) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.4617
                                                Root MSE      =  9.2491
```

(Std. Err. adjusted for **363** clusters in id)

MiPTSD	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
educ						
2	**5.820597**	**2.197737**	**2.65**	**0.008**	**1.498662**	**10.14253**
3	**8.557859**	**2.217783**	**3.86**	**0.000**	**4.196502**	**12.91922**
4	**11.49647**	**2.709472**	**4.24**	**0.000**	**6.168188**	**16.82475**
5	**10.60789**	**2.125**	**4.99**	**0.000**	**6.428997**	**14.78679**
6	**7.777783**	**1.860158**	**4.18**	**0.000**	**4.119711**	**11.43586**
7	**1.051078**	**4.626026**	**0.23**	**0.820**	**-8.046182**	**10.14834**
occ1w2	**8.731455**	**1.389735**	**6.28**	**0.000**	**5.998488**	**11.46442**
occ2w2	**12.16897**	**3.32078**	**3.66**	**0.000**	**5.638522**	**18.69941**
occ3w2	**6.136189**	**2.529987**	**2.43**	**0.016**	**1.160872**	**11.11151**
occ4w2	**11.3704**	**3.877347**	**2.93**	**0.004**	**3.745448**	**18.99536**
occ5w2	**9.690954**	**3.6034**	**2.69**	**0.007**	**2.604727**	**16.77718**
occ6w2	**12.0527**	**4.179716**	**2.88**	**0.004**	**3.83313**	**20.27228**
occ7w2	**8.595732**	**2.286393**	**3.76**	**0.000**	**4.099451**	**13.09201**
occ8w2	**6.619405**	**2.39341**	**2.77**	**0.006**	**1.912671**	**11.32614**
occ1w3	**-8.428897**	**1.599397**	**-5.27**	**0.000**	**-11.57417**	**-5.283622**
occ2w3	**-12.30266**	**3.201279**	**-3.84**	**0.000**	**-18.5981**	**-6.007221**
occ3w3	**-7.176093**	**2.980536**	**-2.41**	**0.017**	**-13.03743**	**-1.314753**
occ4w3	**-10.52378**	**4.019201**	**-2.62**	**0.009**	**-18.4277**	**-2.619867**
occ5w3	**-6.18308**	**4.886825**	**-1.27**	**0.207**	**-15.79321**	**3.427052**
occ6w3	**-7.000901**	**6.15707**	**-1.14**	**0.256**	**-19.10902**	**5.107215**
occ7w3	**-6.645748**	**2.342885**	**-2.84**	**0.005**	**-11.25312**	**-2.038374**
occ8w3	**-19.71297**	**4.625454**	**-4.26**	**0.000**	**-28.8091**	**-10.61683**
inc1w3	**4.828286**	**2.204215**	**2.19**	**0.029**	**.4936128**	**9.16296**
inc2w3	**4.698021**	**1.460079**	**3.22**	**0.001**	**1.826719**	**7.569323**
inc3w3	**3.730748**	**1.556939**	**2.40**	**0.017**	**.6689661**	**6.792529**
inc4w3	**5.574113**	**2.476172**	**2.25**	**0.025**	**.704624**	**10.4436**
injothr	**4.198758**	**1.230167**	**3.41**	**0.001**	**1.779587**	**6.617929**
healthef	**.0349093**	**.0164606**	**2.12**	**0.035**	**.0025389**	**.0672797**
relselfr	**5.867825**	**2.654574**	**2.21**	**0.028**	**.6475019**	**11.08815**
BSIdep	**.5038**	**.1557731**	**3.23**	**0.001**	**.1974662**	**.8101338**
BSIanx	**1.368257**	**.2023052**	**6.76**	**0.000**	**.9704159**	**1.766098**
_cons	**13.4466**	**2.623317**	**5.13**	**0.000**	**8.287744**	**18.60545**

```
157 .
158 .
159 .   foreach xvar in  i.educ occ1w2-occ8w3 inc1w3-inc4w3 injothr healthef ///
    >     relselfr BSIdep BSIanx {
  2.      cap gen `xvar'Xc1 = `xvar'*crhtw1
  3.      }

160 .
161 .  // Significant moderatore effects for females of air and relocate self
162 .    regress MiPTSD i.educ occ1w2-occ8w3 inc1w3-inc4w3 injothr healthef ///
    >     relselfr BSIdep BSIanx  ///
    >     airw1Xc1 relselfrXc1  crhtw1 if gender==2, vce(cluster id)

Linear regression                               Number of obs =     361
                                                F( 31,   360) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.4791
                                                Root MSE      =  9.1493

                                   (Std. Err. adjusted for 361 clusters in id)
------------------------------------------------------------------------------
             |               Robust
      MiPTSD |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        educ |
          2  |   1.503984   2.305584     0.65   0.515    -3.03012    6.038089
          3  |   3.925554   2.334682     1.68   0.094    -.6657741   8.516882
          4  |   6.379501   2.951497     2.16   0.031     .5751603   12.18384
          5  |   5.682827   2.436853     2.33   0.020     .8905708   10.47508
          6  |   3.324189   2.112783     1.57   0.117    -.8307582   7.479136
          7  |   -1.06893   3.423387    -0.31   0.755    -7.801279    5.66342
             |
      occ1w2 |   9.641632   1.561659     6.17   0.000     6.570511   12.71275
      occ2w2 |   13.07145   3.585007     3.65   0.000      6.02126   20.12163
      occ3w2 |   6.974412   2.614122     2.67   0.008     1.833543   12.11528
      occ4w2 |   12.07693     4.0078     3.01   0.003     4.195286   19.95857
      occ5w2 |   9.883227   3.962389     2.49   0.013     2.090889   17.67557
      occ6w2 |   12.61973   4.149506     3.04   0.003     4.459415   20.78005
      occ7w2 |   9.675388   2.300889     4.21   0.000     5.150515   14.20026
      occ8w2 |    6.74932   2.656016     2.54   0.011     1.526064   11.97258
      occ1w3 |  -8.385778   1.581519    -5.30   0.000    -11.49595   -5.275602
      occ2w3 |  -12.58695    3.39746    -3.70   0.000    -19.26831   -5.905584
      occ3w3 |   -7.37086   2.980232    -2.47   0.014    -13.23171   -1.510009
      occ4w3 |  -11.04816   4.021294    -2.75   0.006    -18.95633   -3.139978
      occ5w3 |  -7.545585   5.726028    -1.32   0.188    -18.80625    3.715081
      occ6w3 |  -7.393468    6.45954    -1.14   0.253    -20.09664    5.309705
      occ7w3 |  -6.724345   2.323231    -2.89   0.004    -11.29315   -2.155536
      occ8w3 |  -18.40974   4.572921    -4.03   0.000    -27.40273   -9.416745
      inc1w3 |     4.0668   2.239695     1.82   0.070    -.3377298    8.47133
```

inc2w3	3.70331	1.575915	2.35	0.019	.6041539	6.802467
inc3w3	2.985094	1.638948	1.82	0.069	-.2380221	6.20821
inc4w3	4.265061	2.581923	1.65	0.099	-.812485	9.342607
injothr	4.458633	1.226623	3.63	0.000	2.046386	6.87088
healthef	.0270717	.0162242	1.67	0.096	-.0048345	.0589779
relselfr	3.81397	2.294743	1.66	0.097	-.6988157	8.326756
BSIdep	.5503419	.158567	3.47	0.001	.2385079	.8621758
BSIanx	1.353913	.2092183	6.47	0.000	.9424698	1.765357
airw1Xc1	.0435927	.0164779	2.65	0.009	.0111877	.0759978
relselfrXc1	4.783147	2.075833	2.30	0.022	.7008638	8.865429
crhtw1	-3.471504	1.174961	-2.95	0.003	-5.782153	-1.160854
_cons	17.82546	2.836786	6.28	0.000	12.24671	23.40422

```
163 .
164 .
165 . title "Mediator analysis begins here"
```

```
********************************************************************************
> *
********************************************************************************
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                  Mediator analysis begins here                       ****
> *
*****                                                                      ****
> *
*****                                                                      ****
> *
*****                                          26 Jul 2012    11:21:28  ****
> *
********************************************************************************
> *
********************************************************************************
> *
```

```
166 .
167 .  // two wave path models for males and females
168 . // male model 1
169 . title "H6: Common perceptions of Chornobyl" "related health risk and PTSD fo
    > r males"


    ********************************************************************************
    > *
    ********************************************************************************
    > *
    *****                                                                      ****
    > *
    *****                                                                      ****
    > *
    *****                H6: Common perceptions of Chornobyl                   ****
    > *
    *****               related health risk and PTSD for males                 ****
    > *
    *****                                                                      ****
    > *
    *****                                                                      ****
    > *
    *****                                        26 Jul 2012    11:21:28  ****
    > *
    ********************************************************************************
    > *
    ********************************************************************************
    > *


170 . set more off

171 . 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)
    (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

Fitting target model:

Iteration 0:   log likelihood = -17736.211  (not concave)
Iteration 1:   log likelihood = -17734.628
Iteration 2:   log likelihood = -17732.988
Iteration 3:   log likelihood = -17732.741
Iteration 4:   log likelihood = -17732.484  (not concave)
Iteration 5:   log likelihood =  -17732.46
Iteration 6:   log likelihood = -17732.407
Iteration 7:   log likelihood = -17732.364
Iteration 8:   log likelihood = -17732.345
Iteration 9:   log likelihood = -17732.344
Iteration 10:  log likelihood = -17732.343

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

------------------------------------------------------------------------------
> ------
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
> rval]
-----------------+------------------------------------------------------------
> ------
Structural       |
  avgcumdosew2 <-|
             age |   .0042741   .0030971     1.38   0.168    -.0017961    .01
> 03442
     avgcumdosew1 |   1.150662   .0219955    52.31   0.000     1.107552    1.1
> 93772
            illw1 |   .1267012   .0977114     1.30   0.195    -.0648096    .31
> 82121
           havmil |  -.0004914   .0003429    -1.43   0.152    -.0011634    .00
> 01806
          icdxcnt |   .0337108   .0229542     1.47   0.142    -.0112785    .07
> 87002
          radchw1 |   .0022718   .0009887     2.30   0.022      .000334    .00
> 42097
            _cons |   .0410652   .1602539     0.26   0.798    -.2730267     .3
> 55157
  ---------------+------------------------------------------------------------
```

```
> ------
  crhtw1 <-
             age |   .0162549   .0037448     4.34   0.000     .0089152    .02
> 35945
     avgcumdosew1 |   .0264232   .0166899     1.58   0.113    -.0062883    .05
> 91348
            illw1 |   .0471139   .0587031     0.80   0.422    -.0679421    .16
> 21699
           havmil |  -.0009598     .00042    -2.29   0.022    -.0017831   -.00
> 01365
          radchw1 |  -.0007053   .0012619    -0.56   0.576    -.0031786     .0
> 01768
            airw1 |   .0098957   .0012683     7.80   0.000       .00741    .01
> 23815
            radw1 |   .0030811   .0011504     2.68   0.007     .0008263    .00
> 53359
            _cons |  -1.608145   .2009874    -8.00   0.000    -2.002073   -1.2
> 14217
  ----------------+------------------------------------------------------------
> ------
  crhtw2 <-
     avgcumdosew2 |    .065308   .0352059     1.86   0.064    -.0036943    .13
> 43104
           crhtw1 |   .7972845   .0253508    31.45   0.000     .7475978    .84
> 69712
     avgcumdosew1 |  -.1103735   .0431472    -2.56   0.011    -.1949404   -.02
> 58065
          icdxcnt |   .0598666   .0150157     3.99   0.000     .0304364    .08
> 92969
          radchw1 |  -.0077508   .0008868    -8.74   0.000     -.009489   -.00
> 60127
          radchw2 |   .0088279   .0009278     9.51   0.000     .0070094    .01
> 06463
            illw2 |   .1897646   .0424434     4.47   0.000     .1065771    .27
> 29521
            radw2 |    .002624   .0007346     3.57   0.000     .0011842    .00
> 40638
            _cons |  -.3867569   .0597536    -6.47   0.000    -.5038717   -.2
> 69642
  ----------------+------------------------------------------------------------
> ------
  PTSDw1 <-
           crhtw1 |   88.53432   33.19479     2.67   0.008     23.47373    153
> .5949
              age |  -1.366398    .635724    -2.15   0.032    -2.612394   -.12
> 04018
           havmil |   .0318959   .0514347     0.62   0.535    -.0689143     .1
> 32706
          icdxcnt |   2.894117   1.166754     2.48   0.013     .6073206    5.1
```

```
> 80914
         radchw1 |  -.2361654   .1068714    -2.21   0.027    -.4456294   -.02
> 67013
           airw1 |  -.5533222   .3594229    -1.54   0.124    -1.257778    .15
> 11338
           _cons |   142.6942   53.01585     2.69   0.007     38.78504    246
> .6034
-----------------+------------------------------------------------------------
> -----
  PTSDw2 <-      |
          crhtw2 |   2.834522   .7464686     3.80   0.000     1.371471    4.2
> 97574
          PTSDw1 |   .0921938   .0167231     5.51   0.000      .059417    .12
> 49706
             age |   .1234019   .0523709     2.36   0.018     .0207569    .22
> 60469
    avgcumdosew1 |  -.6086565   .3591329    -1.69   0.090    -1.312544    .09
> 52311
         icdxcnt |  -1.037163    .393548    -2.64   0.008    -1.808503   -.26
> 58233
         radchw2 |  -.0685893   .0177563    -3.86   0.000    -.1033911   -.03
> 37875
           illw2 |   3.023728   1.059671     2.85   0.004     .9468102    5.1
> 00645
           radw2 |   .0909383   .0189519     4.80   0.000     .0537933    .12
> 80832
           _cons |  -1.499636   2.928032    -0.51   0.609    -7.238475    4.2
> 39202
-----------------+------------------------------------------------------------
> -----
  MiPTSD <-      |
    avgcumdosew2 |  -.5350549   .2171563    -2.46   0.014    -.9606735   -.10
> 94364
          crhtw2 |   3.015964   .5486406     5.50   0.000     1.940648     4.
> 09128
          PTSDw1 |   .0847532   .0127838     6.63   0.000     .0596974    .10
> 98089
          PTSDw2 |   .1565365   .0398818     3.93   0.000     .0783697    .23
> 47033
             age |   .0880756   .0378223     2.33   0.020     .0139451     .1
> 62206
           illw1 |   3.325304    1.15483     2.88   0.004     1.061879    5.5
> 88729
          havmil |   .0089795   .0040689     2.21   0.027     .0010047    .01
> 69544
         radchw2 |  -.0418445   .0133722    -3.13   0.002    -.0680534   -.01
> 56355
           illw2 |   3.172976   .7514112     4.22   0.000     1.700237    4.6
> 45715
```

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

172 . estat gof

-------------------------------------------------------------------------------
Fit statistic      |      Value   Description
-------------------+-----------------------------------------------------------
Likelihood ratio   |
         chi2_ms(39)|     50.603   model vs. saturated
            p > chi2|      0.101
         chi2_bs(81)|   2023.828   baseline vs. saturated
            p > chi2|      0.000
-------------------------------------------------------------------------------
```

```
173 . estat stable
```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.00002939 + .00002941*i*	**.000042**
.00002939 - .00002941*i*	**.000042**
-.00002939 + .00002937*i*	**.000042**
-.00002939 - .00002937*i*	**.000042**
-1.374e-08	**1.4e-08**
1.374e-08	**1.4e-08**

stability index = **.0000416**
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

```
174 . 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**

EPC = expected parameter change

```
175 . estat teffects
```

Direct effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
avgcumdosew2 <-						
age	.0042741	.0030971	1.38	0.168	-.0017961	.0103442
avgcumdosew1	1.150662	.0219955	52.31	0.000	1.107552	1.193772
illw1	.1267012	.0977114	1.30	0.195	-.0648096	.3182121
havmil	-.0004914	.0003429	-1.43	0.152	-.0011634	.0001806
icdxcnt	.0337108	.0229542	1.47	0.142	-.0112785	.0787002
radchw1	.0022718	.0009887	2.30	0.022	.000334	.0042097
crhtw1 <-						
age	.0162549	.0037448	4.34	0.000	.0089152	.0235945
avgcumdosew1	.0264232	.0166899	1.58	0.113	-.0062883	.0591348
illw1	.0471139	.0587031	0.80	0.422	-.0679421	.1621699
havmil	-.0009598	.00042	-2.29	0.022	-.0017831	-.0001365
radchw1	-.0007053	.0012619	-0.56	0.576	-.0031786	.0017680
airw1	.0098957	.0012683	7.80	0.000	.00741	.0123815
radw1	.0030811	.0011504	2.68	0.007	.0008263	.0053359
crhtw2 <-						
avgcumdosew2	.065308	.0352059	1.86	0.064	-.0036943	.1343104
crhtw1	.7972845	.0253508	31.45	0.000	.7475978	.8469712

```
             age |          0  (no path)
     avgcumdosew1 |  -.1103735   .0431472    -2.56   0.011    -.1949404   -.02
> 58065
            illw1 |          0  (no path)
           havmil |          0  (no path)
          icdxcnt |  .0598666   .0150157     3.99   0.000     .0304364    .08
> 92969
          radchw1 |  -.0077508   .0008868    -8.74   0.000     -.009489   -.00
> 60127
            airw1 |          0  (no path)
            radw1 |          0  (no path)
          radchw2 |  .0088279   .0009278     9.51   0.000     .0070094    .01
> 06463
            illw2 |  .1897646   .0424434     4.47   0.000     .1065771    .27
> 29521
            radw2 |   .002624   .0007346     3.57   0.000     .0011842    .00
> 40638
------------------+------------------------------------------------------------
> -----
  PTSDw1 <-       |
          crhtw1 |  88.53432   33.19479     2.67   0.008     23.47373    153
> .5949
             age |  -1.366398    .635724    -2.15   0.032    -2.612394   -.12
> 04018
     avgcumdosew1 |          0  (no path)
            illw1 |          0  (no path)
           havmil |  .0318959   .0514347     0.62   0.535    -.0689143     .1
> 32706
          icdxcnt |  2.894117   1.166754     2.48   0.013     .6073206    5.1
> 80914
          radchw1 |  -.2361654   .1068714    -2.21   0.027    -.4456294   -.02
> 67013
            airw1 |  -.5533222   .3594229    -1.54   0.124    -1.257778    .15
> 11338
            radw1 |          0  (no path)
------------------+------------------------------------------------------------
> -----
  PTSDw2 <-       |
     avgcumdosew2 |          0  (no path)
           crhtw1 |          0  (no path)
           crhtw2 |  2.834522   .7464686     3.80   0.000     1.371471    4.2
> 97574
           PTSDw1 |  .0921938   .0167231     5.51   0.000      .059417    .12
> 49706
             age |  .1234019   .0523709     2.36   0.018     .0207569    .22
> 60469
     avgcumdosew1 |  -.6086565   .3591329    -1.69   0.090    -1.312544    .09
> 52311
            illw1 |          0  (no path)
```

```
            havmil |          0  (no path)
           icdxcnt | -1.037163    .393548    -2.64   0.008    -1.808503   -.26
> 58233
           radchw1 |          0  (no path)
             airw1 |          0  (no path)
             radw1 |          0  (no path)
           radchw2 | -.0685893   .0177563    -3.86   0.000    -.1033911   -.03
> 37875
             illw2 |  3.023728   1.059671     2.85   0.004     .9468102    5.1
> 00645
             radw2 |  .0909383   .0189519     4.80   0.000     .0537933    .12
> 80832
-------------------+------------------------------------------------------------
> ------
  MiPTSD <-        |
      avgcumdosew2 | -.5350549   .2171563    -2.46   0.014    -.9606735   -.10
> 94364
            crhtw1 |          0  (no path)
            crhtw2 |  3.015964   .5486406     5.50   0.000     1.940648     4.
> 09128
            PTSDw1 |  .0847532   .0127838     6.63   0.000     .0596974    .10
> 98089
            PTSDw2 |  .1565365   .0398818     3.93   0.000     .0783697    .23
> 47033
               age |  .0880756   .0378223     2.33   0.020     .0139451     .1
> 62206
      avgcumdosew1 |          0  (no path)
            illw1 |  3.325304    1.15483     2.88   0.004     1.061879    5.5
> 88729
            havmil |  .0089795   .0040689     2.21   0.027     .0010047    .01
> 69544
           icdxcnt |          0  (no path)
           radchw1 |          0  (no path)
             airw1 |          0  (no path)
             radw1 |          0  (no path)
           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
-------------------+------------------------------------------------------------
> ------
```

Indirect effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf. Inte
> rval]					
Structural					
avgcumdosew2 <-					
age	**0**	(no path)			
avgcumdosew1	**0**	(no path)			
illw1	**0**	(no path)			
havmil	**0**	(no path)			
icdxcnt	**0**	(no path)			
radchw1	**0**	(no path)			
crhtw1 <-					
age	**0**	(no path)			
avgcumdosew1	**0**	(no path)			
illw1	**0**	(no path)			
havmil	**0**	(no path)			
radchw1	**0**	(no path)			
airw1	**0**	(no path)			
radw1	**0**	(no path)			
crhtw2 <-					
avgcumdosew2	**0**	(no path)			
crhtw1	**0**	(no path)			
age	**.0132389**	**.003023**	**4.38**	**0.000**	**.0073139**	**.01 > 91639**
avgcumdosew1	**.0962143**	**.0426232**	**2.26**	**0.024**	**.0126743**	**.17 > 97543**
illw1	**.0458378**	**.0474532**	**0.97**	**0.334**	**-.0471688**	**.13 > 88444**
havmil	**-.0007973**	**.0003369**	**-2.37**	**0.018**	**-.0014576**	**-.00 > 01371**
icdxcnt	**.0022016**	**.001912**	**1.15**	**0.250**	**-.0015459**	**.00 > 59491**
radchw1	**-.000414**	**.0010116**	**-0.41**	**0.682**	**-.0023967**	**.00 > 15687**
airw1	**.0078897**	**.0010418**	**7.57**	**0.000**	**.0058478**	**.00 > 99316**
radw1	**.0024565**	**.0009205**	**2.67**	**0.008**	**.0006523**	**.00 > 42607**
radchw2	**0**	(no path)			
illw2	**0**	(no path)			

```
           radw2 |          0  (no path)
-----------------+------------------------------------------------------------
> -----
  PTSDw1 <-      |
         crhtw1 |          0  (no path)
            age |   1.439113   .6382586     2.25   0.024     .1881494    2.6
> 90077
    avgcumdosew1 |   2.339364   1.122108     2.08   0.037      .140073    4.5
> 38654
           illw1 |   4.171198   5.005803     0.83   0.405    -5.639996    13.
> 98239
          havmil |  -.0849753   .0513746    -1.65   0.098    -.1856677    .01
> 57172
         icdxcnt |          0  (no path)
         radchw1 |  -.0624437   .1086569    -0.57   0.566    -.2754073    .15
> 05199
           airw1 |   .8761098     .35776     2.45   0.014     .1749131    1.5
> 77306
           radw1 |   .2727822   .0530673     5.14   0.000     .1687721    .37
> 67922
-----------------+------------------------------------------------------------
> -----
  PTSDw2 <-      |
    avgcumdosew2 |   .1851171    .099792     1.86   0.064    -.0104717    .38
> 07058
         crhtw1 |   10.42224   3.061197     3.40   0.001     4.422399    16.
> 42207
         crhtw2 |          0  (no path)
         PTSDw1 |          0  (no path)
            age |   .0442298   .0216272     2.05   0.041     .0018414    .08
> 66182
    avgcumdosew1 |   .1755403   .1482977     1.18   0.237    -.1151178    .46
> 61985
           illw1 |   .5144869   .5936437     0.87   0.386    -.6490333    1.6
> 78007
          havmil |  -.0071536   .0022963    -3.12   0.002    -.0116543    -.0
> 02653
         icdxcnt |   .4427534   .1283494     3.45   0.001     .1911932    .69
> 43135
         radchw1 |  -.0506732   .0094877    -5.34   0.000    -.0692687   -.03
> 20777
           airw1 |   .0521225   .0092774     5.62   0.000     .0339391     .0
> 70306
           radw1 |   .0321118    .007493     4.29   0.000     .0174258    .04
> 67979
         radchw2 |   .0250228   .0070951     3.53   0.000     .0111167     .0
> 38929
           illw2 |   .5378921   .1858477     2.89   0.004     .1736373    .90
> 21469
```

```
             radw2 |   .0074377   .0028587     2.60   0.009      .0018347    .01
> 30407
-------------------+------------------------------------------------------------
> -----
  MiPTSD <-        |
     avgcumdosew2 |   .2259443   .1218009     1.86   0.064     -.0127812    .46
> 46697
           crhtw1 |   11.53961    3.29359     3.50   0.000      5.084291    17.
> 99493
           crhtw2 |   .4437063   .1168496     3.80   0.000      .2146853    .67
> 27273
           PTSDw1 |   .0144317   .0026178     5.51   0.000      .0093009    .01
> 95625
           PTSDw2 |          0  (no path)
              age |   .0700445   .0246427     2.84   0.004      .0217457    .11
> 83432
     avgcumdosew1 |  -.5279009   .3006099    -1.76   0.079     -1.117086    .06
> 12838
            illw1 |   .5045114   .6558992     0.77   0.442     -.7810275     1.
> 79005
           havmil |  -.0077602   .0024565    -3.16   0.002     -.0125749   -.00
> 29456
          icdxcnt |   .3213972   .1512048     2.13   0.034      .0250413    .61
> 77531
          radchw1 |  -.0590806   .0091661    -6.45   0.000     -.0770459   -.04
> 11153
            airw1 |   .0593114   .0087387     6.79   0.000      .0421839    .07
> 64389
            radw1 |   .0355546   .0075358     4.72   0.000      .0207846    .05
> 03245
          radchw2 |   .0198048   .0068949     2.87   0.004      .0062911    .03
> 33185
            illw2 |   1.129847   .2735332     4.13   0.000      .5937316    1.6
> 65962
            radw2 |   .0233133   .0055199     4.22   0.000      .0124945     .0
> 34132
-------------------+------------------------------------------------------------
> -----
```

Total effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Inte
Structural						
avgcumdosew2 <-						
age	.0042741	.0030971	1.38	0.168	-.0017961	.01
avgcumdosew1	1.150662	.0219955	52.31	0.000	1.107552	1.1
illw1	.1267012	.0977114	1.30	0.195	-.0648096	.31
havmil	-.0004914	.0003429	-1.43	0.152	-.0011634	.00
icdxcnt	.0337108	.0229542	1.47	0.142	-.0112785	.07
radchw1	.0022718	.0009887	2.30	0.022	.000334	.00
crhtw1 <-						
age	.0162549	.0037448	4.34	0.000	.0089152	.02
avgcumdosew1	.0264232	.0166899	1.58	0.113	-.0062883	.05
illw1	.0471139	.0587031	0.80	0.422	-.0679421	.16
havmil	-.0009598	.00042	-2.29	0.022	-.0017831	-.00
radchw1	-.0007053	.0012619	-0.56	0.576	-.0031786	.0
airw1	.0098957	.0012683	7.80	0.000	.00741	.01
radw1	.0030811	.0011504	2.68	0.007	.0008263	.00
crhtw2 <-						
avgcumdosew2	.065308	.0352059	1.86	0.064	-.0036943	.13
crhtw1	.7972845	.0253508	31.45	0.000	.7475978	.84
age	.0132389	.003023	4.38	0.000	.0073139	.01
avgcumdosew1	-.0141592	.019643	-0.72	0.471	-.0526588	.02

```
> 43404
           illw1 |   .0458378   .0474532     0.97   0.334    -.0471688    .13
> 88444
          havmil |  -.0007973   .0003369    -2.37   0.018    -.0014576   -.00
> 01371
         icdxcnt |   .0620682   .0149948     4.14   0.000     .0326789    .09
> 14575
         radchw1 |  -.0081648    .001342    -6.08   0.000     -.010795   -.00
> 55346
           airw1 |   .0078897   .0010418     7.57   0.000     .0058478    .00
> 99316
           radw1 |   .0024565   .0009205     2.67   0.008     .0006523    .00
> 42607
         radchw2 |   .0088279   .0009278     9.51   0.000     .0070094    .01
> 06463
           illw2 |   .1897646   .0424434     4.47   0.000     .1065771    .27
> 29521
           radw2 |    .002624   .0007346     3.57   0.000     .0011842    .00
> 40638
-----------------+------------------------------------------------------------
> -----
  PTSDw1 <-      |
          crhtw1 |   88.53432   33.19479     2.67   0.008     23.47373    153
> .5949
             age |   .0727153    .166997     0.44   0.663    -.2545928    .40
> 00235
    avgcumdosew1 |   2.339364   1.122108     2.08   0.037      .140073    4.5
> 38654
           illw1 |   4.171198   5.005803     0.83   0.405    -5.639996    13.
> 98239
          havmil |  -.0530794   .0179578    -2.96   0.003     -.088276   -.01
> 78828
         icdxcnt |   2.894117   1.166754     2.48   0.013     .6073206    5.1
> 80914
         radchw1 |  -.2986091     .05428    -5.50   0.000    -.4049959   -.19
> 22223
           airw1 |   .3227876   .0548931     5.88   0.000      .215199    .43
> 03761
           radw1 |   .2727822   .0530673     5.14   0.000     .1687721    .37
> 67922
-----------------+------------------------------------------------------------
> -----
  PTSDw2 <-      |
    avgcumdosew2 |   .1851171    .099792     1.86   0.064    -.0104717    .38
> 07058
          crhtw1 |   10.42224   3.061197     3.40   0.001     4.422399    16.
> 42207
          crhtw2 |   2.834522   .7464686     3.80   0.000     1.371471    4.2
> 97574
```

```
            PTSDw1 |   .0921938   .0167231     5.51   0.000      .059417     .12
> 49706
               age |   .1676317   .0540941     3.10   0.002     .0616092     .27
> 36542
      avgcumdosew1 |  -.4331162   .3845588    -1.13   0.260    -1.186838     .32
> 06053
            illw1 |   .5144869   .5936437     0.87   0.386    -.6490333    1.6
> 78007
            havmil |  -.0071536   .0022963    -3.12   0.002    -.0116543    -.0
> 02653
           icdxcnt |  -.5944098   .4005187    -1.48   0.138    -1.379412     .19
> 05925
           radchw1 |  -.0506732   .0094877    -5.34   0.000    -.0692687    -.03
> 20777
            airw1 |   .0521225   .0092774     5.62   0.000     .0339391      .0
> 70306
            radw1 |   .0321118    .007493     4.29   0.000     .0174258     .04
> 67979
           radchw2 |  -.0435665   .0178722    -2.44   0.015    -.0785954    -.00
> 85375
            illw2 |    3.56162   1.069887     3.33   0.001      1.46468      5.
> 65856
            radw2 |    .098376   .0188778     5.21   0.000     .0613763     .13
> 53757
------------------+------------------------------------------------------------
> ------
  MiPTSD <-       |
      avgcumdosew2 |  -.3091107   .2489826    -1.24   0.214    -.7971076     .17
> 88862
            crhtw1 |   11.53961    3.29359     3.50   0.000     5.084291    17.
> 99493
            crhtw2 |    3.45967    .560946     6.17   0.000     2.360237    4.5
> 59104
            PTSDw1 |   .0991849   .0130491     7.60   0.000     .0736092     .12
> 47606
            PTSDw2 |   .1565365   .0398818     3.93   0.000     .0783697     .23
> 47033
               age |    .15812   .0426605     3.71   0.000     .0745071      .2
> 41733
      avgcumdosew1 |  -.5279009   .3006099    -1.76   0.079    -1.117086     .06
> 12838
            illw1 |   3.829815   1.325412     2.89   0.004     1.232056    6.4
> 27574
            havmil |   .0012193   .0046767     0.26   0.794    -.0079469     .01
> 03855
           icdxcnt |   .3213972   .1512048     2.13   0.034     .0250413     .61
> 77531
           radchw1 |  -.0590806   .0091661    -6.45   0.000    -.0770459    -.04
> 11153
```

```
             airw1 |   .0593114   .0087387     6.79   0.000     .0421839    .07
> 64389
             radw1 |   .0355546   .0075358     4.72   0.000     .0207846    .05
> 03245
          radchw2 |  -.0220397   .0137525    -1.60   0.109    -.0489941    .00
> 49147
             illw2 |   4.302823   .7770512     5.54   0.000     2.779831    5.8
> 25815
             radw2 |   .1069007   .0142987     7.48   0.000     .0788758    .13
> 49256
-------------------+----------------------------------------------------------
> ------
```

```
176 .
177 . // regular male path model
178 . 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==0,  wrap(1) nocapslatent

Endogenous variables

Observed:  crhtw2 crhtw3 PTSDw1 PTSDw2 MiPTSD

Exogenous variables

Observed:  crhtw1

Fitting target model:

Iteration 0:   log likelihood = -4935.7279
Iteration 1:   log likelihood = -4935.7279

Structural equation model                       Number of obs      =       339
Estimation method  = ml
Log likelihood     = -4935.7279
```

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.808673	.0311482	25.96	0.000	.7476236	.8697223
_cons	-.0690801	.0292554	-2.36	0.018	-.1264196	-.0117406
crhtw3 <-						
crhtw2	1.055212	.0258798	40.77	0.000	1.004489	1.105936
crhtw1	-.1183935	.0256569	-4.61	0.000	-.1686801	-.0681068
_cons	-.0069225	.0140543	-0.49	0.622	-.0344684	.0206233
PTSDw1 <-						
crhtw1	17.44697	2.070283	8.43	0.000	13.38929	21.50465
_cons	26.78632	1.944476	13.78	0.000	22.97522	30.59742
PTSDw2 <-						
crhtw2	4.185639	1.124376	3.72	0.000	1.981903	6.389375
PTSDw1	.1174034	.0169167	6.94	0.000	.0842474	.1505595
crhtw1	-1.207601	1.140348	-1.06	0.290	-3.442642	1.02744
_cons	2.844572	.762135	3.73	0.000	1.350815	4.338329
MiPTSD <-						
crhtw2	-.2129708	2.145157	-0.10	0.921	-4.417402	3.991461
crhtw3	5.742549	1.857988	3.09	0.002	2.10096	9.384138
PTSDw1	.0899427	.0142199	6.33	0.000	.0620723	.1178131
PTSDw2	.2641445	.0428121	6.17	0.000	.1802343	.3480547
crhtw1	-1.673352	.9217186	-1.82	0.069	-3.479888	.1331828
_cons	44.43075	.611012	72.72	0.000	43.23319	45.62832
Variance						
e.crhtw2	.2834994	.0217755			.2438775	.3295585
e.crhtw3	.0643684	.0049441			.0553723	.0748261
e.PTSDw1	1252.407	96.19683			1077.371	1455.881
e.PTSDw2	121.1661	9.306713			104.2319	140.8515
e.MiPTSD	74.76247	5.742471			64.31367	86.90886

LR test of model vs. saturated: chi2(3) = 3.49, Prob > chi2 = 0.3223

```
179 . estat gof
```

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(**3**)	**3.488**	model vs. saturated
p > chi2	**0.322**	
chi2_bs(**15**)	**1622.160**	baseline vs. saturated
p > chi2	**0.000**	

```
180 . estat stable
```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
7.392e-06	**7.4e-06**
-3.696e-06 + 6.401e-06*i*	**7.4e-06**
-3.696e-06 - 6.401e-06*i*	**7.4e-06**
1.039e-17 + 9.511e-10*i*	**9.5e-10**
1.039e-17 - 9.511e-10*i*	**9.5e-10**

stability index = **7.39e-06**
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

```
181 . estat teffects
```

Direct effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	**.808673**	**.0311482**	**25.96**	**0.000**	**.7476236**	**.8697223**
crhtw3 <-						
crhtw2	**1.055212**	**.0258798**	**40.77**	**0.000**	**1.004489**	**1.105936**
crhtw1	**-.1183935**	**.0256569**	**-4.61**	**0.000**	**-.1686801**	**-.0681068**
PTSDw1 <-						
crhtw1	**17.44697**	**2.070283**	**8.43**	**0.000**	**13.38929**	**21.50465**

PTSDw2 <-						
crhtw2	**4.185639**	**1.124376**	**3.72**	**0.000**	**1.981903**	**6.389375**
PTSDw1	**.1174034**	**.0169167**	**6.94**	**0.000**	**.0842474**	**.1505595**
crhtw1	**-1.207601**	**1.140348**	**-1.06**	**0.290**	**-3.442642**	**1.02744**
MiPTSD <-						
crhtw2	**-.2129708**	**2.145157**	**-0.10**	**0.921**	**-4.417402**	**3.991461**
crhtw3	**5.742549**	**1.857988**	**3.09**	**0.002**	**2.10096**	**9.384138**
PTSDw1	**.0899427**	**.0142199**	**6.33**	**0.000**	**.0620723**	**.1178131**
PTSDw2	**.2641445**	**.0428121**	**6.17**	**0.000**	**.1802343**	**.3480547**
crhtw1	**-1.673352**	**.9217186**	**-1.82**	**0.069**	**-3.479888**	**.1331828**

Indirect effects

	Coef.	OIM Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	**0**	(no path)				
crhtw3 <-						
crhtw2	**0**	(no path)				
crhtw1	**.8533216**	**.0389653**	**21.90**	**0.000**	**.776951**	**.9296922**
PTSDw1 <-						
crhtw1	**0**	(no path)				
PTSDw2 <-						
crhtw2	**0**	(no path)				
PTSDw1	**0**	(no path)				
crhtw1	**5.433147**	**.980717**	**5.54**	**0.000**	**3.510977**	**7.355317**
MiPTSD <-						
crhtw2	**7.165222**	**.3321059**	**21.58**	**0.000**	**6.514306**	**7.816138**
crhtw3	**0**	(no path)				
PTSDw1	**.0310115**	**.0044684**	**6.94**	**0.000**	**.0222535**	**.0397695**
PTSDw2	**0**	(no path)				
crhtw1	**6.73352**	**.8599438**	**7.83**	**0.000**	**5.048061**	**8.418979**

Total effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	**.808673**	**.0311482**	**25.96**	**0.000**	**.7476236**	**.8697223**
crhtw3 <-						
crhtw2	**1.055212**	**.0258798**	**40.77**	**0.000**	**1.004489**	**1.105936**
crhtw1	**.7349282**	**.0360637**	**20.38**	**0.000**	**.6642447**	**.8056117**
PTSDw1 <-						
crhtw1	**17.44697**	**2.070283**	**8.43**	**0.000**	**13.38929**	**21.50465**
PTSDw2 <-						
crhtw2	**4.185639**	**1.124376**	**3.72**	**0.000**	**1.981903**	**6.389375**
PTSDw1	**.1174034**	**.0169167**	**6.94**	**0.000**	**.0842474**	**.1505595**
crhtw1	**4.225546**	**.7005266**	**6.03**	**0.000**	**2.852539**	**5.598553**
MiPTSD <-						
crhtw2	**6.952251**	**2.170713**	**3.20**	**0.001**	**2.697732**	**11.20677**
crhtw3	**5.742549**	**1.857988**	**3.09**	**0.002**	**2.10096**	**9.384138**
PTSDw1	**.1209542**	**.0149054**	**8.11**	**0.000**	**.0917401**	**.1501683**
PTSDw2	**.2641445**	**.0428121**	**6.17**	**0.000**	**.1802343**	**.3480547**
crhtw1	**5.060167**	**.6337603**	**7.98**	**0.000**	**3.81802**	**6.302315**

```
182 .
183 .
184 . // Robust path model
185 . 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==0, vce(cluster id) wrap(1) nocapslatent

Endogenous variables

Observed:  crhtw2 crhtw3 PTSDw1 PTSDw2 MiPTSD

Exogenous variables

Observed:  crhtw1

Fitting target model:
```

```
Iteration 0:   log pseudolikelihood = -4935.7279
Iteration 1:   log pseudolikelihood = -4935.7279

Structural equation model                       Number of obs      =       339
Estimation method  = ml
Log pseudolikelihood= -4935.7279
```

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.808673	.0331388	24.40	0.000	.7437222	.8736237
_cons	-.0690801	.0275271	-2.51	0.012	-.1230322	-.0151279
crhtw3 <-						
crhtw2	1.055212	.0329604	32.01	0.000	.990611	1.119814
crhtw1	-.1183935	.0379136	-3.12	0.002	-.1927027	-.0440842
_cons	-.0069225	.0143437	-0.48	0.629	-.0350358	.0211907
PTSDw1 <-						
crhtw1	17.44697	2.143377	8.14	0.000	13.24603	21.64791
_cons	26.78632	2.10841	12.70	0.000	22.65391	30.91873
PTSDw2 <-						
crhtw2	4.185639	.8883731	4.71	0.000	2.44446	5.926818
PTSDw1	.1174034	.0225907	5.20	0.000	.0731264	.1616804
crhtw1	-1.207601	.8573454	-1.41	0.159	-2.887967	.4727654
_cons	2.844572	.4519448	6.29	0.000	1.958776	3.730367
MiPTSD <-						
crhtw2	-.2129708	2.284107	-0.09	0.926	-4.689737	4.263796
crhtw3	5.742549	1.906455	3.01	0.003	2.005967	9.479132
PTSDw1	.0899427	.016917	5.32	0.000	.056786	.1230994
PTSDw2	.2641445	.0679108	3.89	0.000	.1310418	.3972472
crhtw1	-1.673352	1.044293	-1.60	0.109	-3.720128	.3734236
_cons	44.43075	.6539724	67.94	0.000	43.14899	45.71252
Variance						
e.crhtw2	.2834994	.0390594			.2164098	.3713876
e.crhtw3	.0643684	.0182932			.0368779	.1123517
e.PTSDw1	1252.407	86.18473			1094.385	1433.248
e.PTSDw2	121.1661	30.4715			74.01444	198.3562
e.MiPTSD	74.76247	7.173899			61.94494	90.23218

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

187 . estat stable

    Stability analysis of simultaneous equation systems
```

Eigenvalue stability condition

Eigenvalue	Modulus
7.392e-06	**7.4e-06**
-3.696e-06 + 6.401e-06*i*	**7.4e-06**
-3.696e-06 - 6.401e-06*i*	**7.4e-06**
1.039e-17 + 9.511e-10*i*	**9.5e-10**
1.039e-17 - 9.511e-10*i*	**9.5e-10**

stability index = **7.39e-06**
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

```
188 . estat teffects
```

Direct effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	**.808673**	**.0331388**	**24.40**	**0.000**	**.7437222**	**.8736237**
crhtw3 <-						
crhtw2	**1.055212**	**.0329604**	**32.01**	**0.000**	**.990611**	**1.119814**
crhtw1	**-.1183935**	**.0379136**	**-3.12**	**0.002**	**-.1927027**	**-.0440842**
PTSDw1 <-						
crhtw1	**17.44697**	**2.143377**	**8.14**	**0.000**	**13.24603**	**21.64791**
PTSDw2 <-						
crhtw2	**4.185639**	**.8883731**	**4.71**	**0.000**	**2.44446**	**5.926818**
PTSDw1	**.1174034**	**.0225907**	**5.20**	**0.000**	**.0731264**	**.1616804**
crhtw1	**-1.207601**	**.8573454**	**-1.41**	**0.159**	**-2.887967**	**.4727654**
MiPTSD <-						
crhtw2	**-.2129708**	**2.284107**	**-0.09**	**0.926**	**-4.689737**	**4.263796**
crhtw3	**5.742549**	**1.906455**	**3.01**	**0.003**	**2.005967**	**9.479132**

PTSDw1	.0899427	.016917	5.32	0.000	.056786	.1230994
PTSDw2	.2641445	.0679108	3.89	0.000	.1310418	.3972472
crhtw1	-1.673352	1.044293	-1.60	0.109	-3.720128	.3734236

Indirect effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	0	(no path)				
crhtw3 <-						
crhtw2	0	(no path)				
crhtw1	.8533216	.050095	17.03	0.000	.7551372	.9515061
PTSDw1 <-						
crhtw1	0	(no path)				
PTSDw2 <-						
crhtw2	0	(no path)				
PTSDw1	0	(no path)				
crhtw1	5.433147	1.028607	5.28	0.000	3.417115	7.449179
MiPTSD <-						
crhtw2	7.165222	.3311412	21.64	0.000	6.516197	7.814247
crhtw3	0	(no path)				
PTSDw1	.0310115	.0059672	5.20	0.000	.0193159	.042707
PTSDw2	0	(no path)				
crhtw1	6.73352	1.01958	6.60	0.000	4.735179	8.73186

Total effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.808673	.0331388	24.40	0.000	.7437222	.8736237
crhtw3 <-						
crhtw2	1.055212	.0329604	32.01	0.000	.990611	1.119814

crhtw1	.7349282	.0384391	19.12	0.000	.6595889	.8102674
PTSDw1 <-						
crhtw1	17.44697	2.143377	8.14	0.000	13.24603	21.64791
PTSDw2 <-						
crhtw2	4.185639	.8883731	4.71	0.000	2.44446	5.926818
PTSDw1	.1174034	.0225907	5.20	0.000	.0731264	.1616804
crhtw1	4.225546	.9614717	4.39	0.000	2.341096	6.109996
MiPTSD <-						
crhtw2	6.952251	2.267127	3.07	0.002	2.508764	11.39574
crhtw3	5.742549	1.906455	3.01	0.003	2.005967	9.479132
PTSDw1	.1209542	.0189164	6.39	0.000	.0838787	.1580296
PTSDw2	.2641445	.0679108	3.89	0.000	.1310418	.3972472
crhtw1	5.060167	.7327402	6.91	0.000	3.624023	6.496312

```
189 .
190 .
191 . title "H6  Common perceptions of Chornobyl health" "related risk and PTSD fo
    > r females"

    ********************************************************************************
    > *
    ********************************************************************************
    > *
    *****                                                                      ****
    > *
    *****                                                                      ****
    > *
    *****             H6  Common perceptions of Chornobyl health               ****
    > *
    *****                 related risk and PTSD for females                    ****
    > *
    *****                                                                      ****
    > *
    *****                                                                      ****
    > *
    *****                                        26 Jul 2012    11:21:30      ****
    > *
    ********************************************************************************
    > *
    ********************************************************************************
    > *
```

```
192 . set more off

193 . 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(100)
    (2 observations with missing values excluded;
     specify option 'method(mlmv)' to use all observations)

    Endogenous variables

    Observed:  kmwork avgcumdosew1 radchw1 radchw2 airw2 crhtw1 PTSDw2 crhtw2
               MiPTSD

    Exogenous variables

    Observed:  kmacc age airw1 radhlw1 PTSDw1 havmil

    Fitting target model:

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

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

    ------------------------------------------------------------------------------
    > -----
                         |                 OIM
                         |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inte
    > rval]
    -------------------------------------------------------------------------------
    > -----
    Structural           |
      kmwork <-          |
                havmil   |   .7678895   .0343703    22.34   0.000     .7005248    .83
    > 52541
                 _cons   |   115.5287   8.498615    13.59   0.000     98.87176    132
    > .1857
      ------------------------------------------------------------------------------
    > -----
```

```
  avgcumdosew1 <- |
           kmwork |  -.0003884   .0010885    -0.36   0.721    -.0025219    .00
> 17451
            kmacc |   .0001138   .0010881     0.10   0.917    -.0020187    .00
> 22464
              age |   .0083599   .0024082     3.47   0.001     .0036399      .
> 01308
            _cons |  -.0307946   .1274701    -0.24   0.809    -.2806314    .21
> 90422
  ----------------+----------------------------------------------------------
> -----
  radchw1 <-      |
           kmwork |   .0429111   .0663036     0.65   0.518    -.0870416    .17
> 28638
            kmacc |  -.0528118   .0662331    -0.80   0.425    -.1826262    .07
> 70026
              age |   .0673804   .1508917     0.45   0.655    -.2283619    .36
> 31227
            airw1 |   .1670343   .0530069     3.15   0.002     .0631426     .2
> 70926
          radhlw1 |   .3888016   .0505154     7.70   0.000     .2897933    .48
> 78099
            _cons |   26.64206   8.263142     3.22   0.001      10.4466    42.
> 83752
  ----------------+----------------------------------------------------------
> -----
  radchw2 <-      |
           kmwork |   .0079469   .0465706     0.17   0.865    -.0833298    .09
> 92235
     avgcumdosew1 |   4.420976   2.229713     1.98   0.047     .0508189    8.7
> 91134
          radchw1 |   .6597837   .0330808    19.94   0.000     .5949466    .72
> 46208
            kmacc |   .0251429   .0465594     0.54   0.589    -.0661119    .11
> 63977
            _cons |   14.13323   2.813062     5.02   0.000     8.619724    19.
> 64673
  ----------------+----------------------------------------------------------
> -----
  airw2 <-        |
           crhtw1 |   4.771939   2.084931     2.29   0.022     .6855498    8.8
> 58328
              age |   .3126984   .1592591     1.96   0.050     .0005563    .62
> 48405
            airw1 |   .3413792   .0558761     6.11   0.000     .2318641    .45
> 08942
            _cons |  -3.519867   8.850243    -0.40   0.691    -20.86602    13.
> 82629
  ----------------+----------------------------------------------------------
```

```
> ------
  crhtw1 <-
         radchw1 |   .0008685   .0003081     2.82   0.005      .0002646     .00
> 14723
             age |   .0017182   .0008924     1.93   0.054      -.000031     .00
> 34673
         radhlw1 |   .0242765   .0003149    77.09   0.000      .0236593     .02
> 48937
           _cons |  -1.382818   .0459768   -30.08   0.000     -1.472931    -1.2
> 92705
  -------------------+----------------------------------------------------------------
> ------
  PTSDw2 <-
          PTSDw1 |   .0674057   .0125948     5.35   0.000      .0427203     .09
> 20911
           _cons |   2.308176   .4765058     4.84   0.000      1.374242      3.
> 24211
  -------------------+----------------------------------------------------------------
> ------
  crhtw2 <-
    avgcumdosew1 |   .1152761   .0477203     2.42   0.016      .0217462     .20
> 88061
         radchw1 |  -.0123678   .0010597   -11.67   0.000     -.0144448    -.01
> 02909
         radchw2 |      .0146   .0010744    13.59   0.000      .0124942     .01
> 67058
           airw2 |   .0025974   .0007155     3.63   0.000      .0011951     .00
> 39998
          crhtw1 |   .6674235   .0325239    20.52   0.000      .6036778     .73
> 11692
             age |   .0061971    .002302     2.69   0.007      .0016853     .01
> 07089
           _cons |   -.510907   .1255166    -4.07   0.000      -.756915    -.26
> 48989
  -------------------+----------------------------------------------------------------
> ------
  MiPTSD <-
    avgcumdosew1 |   1.551965   1.044057     1.49   0.137     -.4943493      3.
> 59828
          crhtw1 |  -4.871468    .798249    -6.10   0.000     -6.436007    -3.3
> 06928
          PTSDw2 |   .2589542    .069413     3.73   0.000      .1229072     .39
> 50013
          crhtw2 |   6.261799   .8793748     7.12   0.000      4.538256     7.9
> 85342
             age |   .1595218   .0493551     3.23   0.001      .0627876      .2
> 56256
          PTSDw1 |   .0473405   .0174816     2.71   0.007      .0130772     .08
> 16038
```

```
            _cons |   38.86229   2.471961    15.72   0.000     34.01734    43.
> 70725
------------------+------------------------------------------------------------
> ------
Variance          |
         e.kmwork |   21773.32   1620.638                      18817.75     25
> 193.1
   e.avgcumdosew1 |   .2883424    .021462                      .249202    .33
> 36302
        e.radchw1 |   1064.138   79.20622                      919.689    123
> 1.274
        e.radchw2 |   534.0213   39.74843                      461.5318    617
> .8961
         e.airw2 |   1193.041   88.80078                      1031.095    138
> 0.423
         e.crhtw1 |   .0377576   .0028104                      .0326323    .04
> 36879
         e.PTSDw2 |    63.3167   4.712807                      54.72192    73.
> 26138
         e.crhtw2 |   .2389773   .0177876                      .2065379    .27
> 65117
         e.MiPTSD |    108.173   8.051563                      93.4893    125
> .1629
------------------+------------------------------------------------------------
> ------
LR test of model vs. saturated: chi2(60)  =   1328.32, Prob > chi2 = 0.0000

194 . estat gof

-------------------------------------------------------------------------------
Fit statistic               |      Value   Description
----------------------------+--------------------------------------------------
Likelihood ratio            |
         chi2_ms(60)        |   1328.323   model vs. saturated
            p > chi2        |      0.000
         chi2_bs(90)        |   3781.969   baseline vs. saturated
            p > chi2        |      0.000
-------------------------------------------------------------------------------
```

```
195 . estat stable
```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.00020949	.000209
.00009893 + .00018164*i*	.000207
.00009893 - .00018164*i*	.000207
-.00010516 + .0001709*i*	.000201
-.00010516 - .0001709*i*	.000201
-.00019703	.000197
-1.042e-16 + 1.201e-09*i*	1.2e-09
-1.042e-16 - 1.201e-09*i*	1.2e-09
9.920e-19	9.9e-19

stability index = .0002095
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

```
196 . estat mindices
```

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
kmwork <-					
radchw1	29.162	1	0.00	-1.502379	-.2565479
crhtw1	9.168	1	0.00	-25.04916	-.1038661
kmacc	349.712	1	0.00	.9854817	.9864471
radhlw1	9.569	1	0.00	-.6490071	-.1059972
avgcumdosew1 <-					
MiPTSD	7.928	1	0.00	.0224692	.484807
PTSDw1	15.402	1	0.00	.0033577	.2022973
radchw1 <-					
havmil	4.159	1	0.04	-.0302535	-.1757583
radchw2 <-					
airw2	6.262	1	0.01	.0820942	.0899958
PTSDw1	4.324	1	0.04	-.0761589	-.073878
airw2 <-					

crhtw2	**9.285**	**1**	**0.00**	**13.63817**	**.3188338**
PTSDw2 <- crhtw2	**4.538**	**1**	**0.03**	**1.016017**	**.1079692**
Covariance					
e.kmwork e.radchw1	**4.159**	**1**	**0.04**	**857.8305**	**.1782133**
e.radchw2 e.airw2	**9.565**	**1**	**0.00**	**129.9239**	**.1627729**

EPC = expected parameter change

197 . estat teffects

Direct effects

	Coef.	OIM Std. Err.	z	P>|z|	[95% Conf.	Inte
Structural						
kmwork <- havmil	**.7678895**	**.0343703**	**22.34**	**0.000**	**.7005248**	**.83**
avgcumdosew1 <- kmwork	**-.0003884**	**.0010885**	**-0.36**	**0.721**	**-.0025219**	**.00**
kmacc	**.0001138**	**.0010881**	**0.10**	**0.917**	**-.0020187**	**.00**
age	**.0083599**	**.0024082**	**3.47**	**0.001**	**.0036399**	**.**
havmil	**0**	(no path)				
radchw1 <- kmwork	**.0429111**	**.0663036**	**0.65**	**0.518**	**-.0870416**	**.17**
kmacc	**-.0528118**	**.0662331**	**-0.80**	**0.425**	**-.1826262**	**.07**
age	**.0673804**	**.1508917**	**0.45**	**0.655**	**-.2283619**	**.36**
airw1	**.1670343**	**.0530069**	**3.15**	**0.002**	**.0631426**	**.2**

```
> 70926
         radhlw1 |   .3888016   .0505154     7.70   0.000     .2897933    .48
> 78099
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> ------
  radchw2 <-     |
          kmwork |   .0079469   .0465706     0.17   0.865    -.0833298    .09
> 92235
     avgcumdosew1 |   4.420976   2.229713     1.98   0.047     .0508189    8.7
> 91134
         radchw1 |   .6597837   .0330808    19.94   0.000     .5949466    .72
> 46208
           kmacc |   .0251429   .0465594     0.54   0.589    -.0661119    .11
> 63977
             age |          0  (no path)
           airw1 |          0  (no path)
         radhlw1 |          0  (no path)
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> ------
  airw2 <-       |
          kmwork |          0  (no path)
         radchw1 |          0  (no path)
          crhtw1 |   4.771939   2.084931     2.29   0.022     .6855498    8.8
> 58328
           kmacc |          0  (no path)
             age |   .3126984   .1592591     1.96   0.050     .0005563    .62
> 48405
           airw1 |   .3413792   .0558761     6.11   0.000     .2318641    .45
> 08942
         radhlw1 |          0  (no path)
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> ------
  crhtw1 <-      |
          kmwork |          0  (no path)
         radchw1 |   .0008685   .0003081     2.82   0.005     .0002646    .00
> 14723
           kmacc |          0  (no path)
             age |   .0017182   .0008924     1.93   0.054     -.000031    .00
> 34673
           airw1 |          0  (no path)
         radhlw1 |   .0242765   .0003149    77.09   0.000     .0236593    .02
> 48937
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> ------
  PTSDw2 <-      |
```

```
          PTSDw1 |   .0674057   .0125948     5.35   0.000     .0427203    .09
> 20911
-----------------+------------------------------------------------------------
> -----
  crhtw2 <-      |
          kmwork |          0  (no path)
     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
           kmacc |          0  (no path)
             age |   .0061971    .002302     2.69   0.007     .0016853    .01
> 07089
           airw1 |          0  (no path)
         radhlw1 |          0  (no path)
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> -----
  MiPTSD <-      |
          kmwork |          0  (no path)
     avgcumdosew1 |   1.551965   1.044057     1.49   0.137    -.4943493     3.
> 59828
         radchw1 |          0  (no path)
         radchw2 |          0  (no path)
           airw2 |          0  (no path)
          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
           kmacc |          0  (no path)
             age |   .1595218   .0493551     3.23   0.001     .0627876     .2
> 56256
           airw1 |          0  (no path)
         radhlw1 |          0  (no path)
          PTSDw1 |   .0473405   .0174816     2.71   0.007     .0130772    .08
> 16038
          havmil |          0  (no path)
-----------------+------------------------------------------------------------
> -----
```

Indirect effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Inte
Structural						
kmwork <-						
havmil	**0**	(no path)				
avgcumdosew1 <-						
kmwork	**0**	(no path)				
kmacc	**0**	(no path)				
age	**0**	(no path)				
havmil	**-.0002983**	**.000836**	**-0.36**	**0.721**	**-.0019368**	**.00**
> 13402						
radchw1 <-						
kmwork	**0**	(no path)				
kmacc	**0**	(no path)				
age	**0**	(no path)				
airw1	**0**	(no path)				
radhlw1	**0**	(no path)				
havmil	**.032951**	**.0509352**	**0.65**	**0.518**	**-.0668802**	**.13**
> 27821						
radchw2 <-						
kmwork	**.0265949**	**.0440099**	**0.60**	**0.546**	**-.059663**	**.11**
> 28528						
avgcumdosew1	**0**	(no path)				
radchw1	**0**	(no path)				
kmacc	**-.0343412**	**.0439992**	**-0.78**	**0.435**	**-.1205782**	**.05**
> 18957						
age	**.0814155**	**.101853**	**0.80**	**0.424**	**-.1182126**	**.28**
> 10436						
airw1	**.1102065**	**.0354069**	**3.11**	**0.002**	**.0408101**	**.17**
> 96028						
radhlw1	**.256525**	**.0357248**	**7.18**	**0.000**	**.1865056**	**.32**
> 65444						
havmil	**.0265242**	**.0492117**	**0.54**	**0.590**	**-.0699289**	**.12**
> 29774						
airw2 <-						

```
            kmwork |   .0001778   .0002748     0.65   0.518    -.0003607    .00
> 07164
           radchw1 |   .0041443   .0014702     2.82   0.005     .0012628    .00
> 70257
           crhtw1 |          0  (no path)
            kmacc |  -.0002189   .0003009    -0.73   0.467    -.0008085    .00
> 03708
              age |   .0084783   .0056774     1.49   0.135    -.0026492    .01
> 96058
            airw1 |   .0006922   .0004473     1.55   0.122    -.0001844    .00
> 15688
           radhlw1 |   .1174574   .0513372     2.29   0.022     .0168383    .21
> 80764
            havmil |   .0001366   .0002246     0.61   0.543    -.0003037    .00
> 05769
-------------------+------------------------------------------------------------
> ------
  crhtw1 <-        |
            kmwork |   .0000373   .0000576     0.65   0.518    -.0000756    .00
> 01501
           radchw1 |          0  (no path)
            kmacc |  -.0000459   .0000598    -0.77   0.443     -.000163    .00
> 00713
              age |   .0000585   .0001327     0.44   0.659    -.0002015    .00
> 03186
            airw1 |   .0001451    .000069     2.10   0.036     9.74e-06    .00
> 02804
           radhlw1 |   .0003377   .0001276     2.65   0.008     .0000876    .00
> 05877
            havmil |   .0000286   .0000454     0.63   0.528    -.0000603    .00
> 01176
-------------------+------------------------------------------------------------
> ------
  PTSDw2 <-        |
            PTSDw1 |          0  (no path)
-------------------+------------------------------------------------------------
> ------
  crhtw2 <-        |
            kmwork |  -.0000458   .0007217    -0.06   0.949    -.0014603    .00
> 13686
       avgcumdosew1 |   .0645464   .0325539     1.98   0.047      .000742    .12
> 83508
           radchw1 |   .0102233   .0005264    19.42   0.000     .0091915    .01
> 12551
           radchw2 |          0  (no path)
            airw2 |          0  (no path)
           crhtw1 |   .0123948   .0054155     2.29   0.022     .0017807     .0
> 23009
            kmacc |   .0005008   .0007227     0.69   0.488    -.0009156    .00
```

```
> 19172
             age |   .0033391   .0010555     3.16   0.002     .0012703    .00
> 54078
           airw1 |   .0005285   .0003446     1.53   0.125    -.0001469    .00
> 12039
         radhlw1 |   .0156698   .0007737    20.25   0.000     .0141534    .01
> 71863
          havmil |  -.0000352   .0005549    -0.06   0.949    -.0011229    .00
> 10525
-----------------+------------------------------------------------------------
> -----
MiPTSD <-        |
          kmwork |  -.0010714   .0052911    -0.20   0.840    -.0114418     .0
> 09299
    avgcumdosew1 |   1.126013   .3617227     3.11   0.002     .4170491    1.8
> 34976
         radchw1 |  -.0176595   .0072947    -2.42   0.015    -.0319568   -.00
> 33621
         radchw2 |   .0914224   .0067277    13.59   0.000     .0782364    .10
> 46085
           airw2 |   .0162647   .0044802     3.63   0.000     .0074836    .02
> 50458
          crhtw1 |   4.256886   .2064622    20.62   0.000     3.852227    4.6
> 61544
          PTSDw2 |          0  (no path)
          crhtw2 |          0  (no path)
           kmacc |    .003536   .0053157     0.67   0.506    -.0068826    .01
> 39546
             age |   .0640327   .0192951     3.32   0.001      .026215    .10
> 18504
           airw1 |   .0026027   .0022665     1.15   0.251    -.0018395    .00
> 70448
         radhlw1 |  -.0217859   .0155778    -1.40   0.162    -.0523178    .00
> 87459
          PTSDw1 |    .017455   .0057034     3.06   0.002     .0062765    .02
> 86335
          havmil |  -.0008227   .0040787    -0.20   0.840    -.0088169    .00
> 71714
-----------------+------------------------------------------------------------
> -----
```

Total effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]
Structural					
kmwork <-					
havmil	.7678895	.0343703	22.34	0.000	.7005248 .83
avgcumdosew1 <-					
kmwork	-.0003884	.0010885	-0.36	0.721	-.0025219 .00
kmacc	.0001138	.0010881	0.10	0.917	-.0020187 .00
age	.0083599	.0024082	3.47	0.001	.0036399 .
havmil	-.0002983	.000836	-0.36	0.721	-.0019368 .00
radchw1 <-					
kmwork	.0429111	.0663036	0.65	0.518	-.0870416 .17
kmacc	-.0528118	.0662331	-0.80	0.425	-.1826262 .07
age	.0673804	.1508917	0.45	0.655	-.2283619 .36
airw1	.1670343	.0530069	3.15	0.002	.0631426 .2
radhlw1	.3888016	.0505154	7.70	0.000	.2897933 .48
havmil	.032951	.0509352	0.65	0.518	-.0668802 .13
radchw2 <-					
kmwork	.0345418	.0640757	0.54	0.590	-.0910443 .16
avgcumdosew1	4.420976	2.229713	1.98	0.047	.0508189 8.7
radchw1	.6597837	.0330808	19.94	0.000	.5949466 .72
kmacc	-.0091983	.0640048	-0.14	0.886	-.1346455 .11

```
                age |   .0814155    .101853     0.80   0.424    -.1182126     .28
> 10436
              airw1 |   .1102065   .0354069     3.11   0.002     .0408101     .17
> 96028
            radhlw1 |    .256525   .0357248     7.18   0.000     .1865056     .32
> 65444
             havmil |   .0265242   .0492117     0.54   0.590    -.0699289     .12
> 29774
--------------------+---------------------------------------------------------
> ------
  airw2 <-          |
             kmwork |   .0001778   .0002748     0.65   0.518    -.0003607     .00
> 07164
            radchw1 |   .0041443   .0014702     2.82   0.005     .0012628     .00
> 70257
             crhtw1 |   4.771939   2.084931     2.29   0.022     .6855498    8.8
> 58328
              kmacc |  -.0002189   .0003009    -0.73   0.467    -.0008085     .00
> 03708
                age |   .3211767   .1584558     2.03   0.043      .010609     .63
> 17444
              airw1 |   .3420714     .05579     6.13   0.000     .2327249     .45
> 14179
            radhlw1 |   .1174574   .0513372     2.29   0.022     .0168383     .21
> 80764
             havmil |   .0001366   .0002246     0.61   0.543    -.0003037     .00
> 05769
--------------------+---------------------------------------------------------
> ------
  crhtw1 <-         |
             kmwork |   .0000373   .0000576     0.65   0.518    -.0000756     .00
> 01501
            radchw1 |   .0008685   .0003081     2.82   0.005     .0002646     .00
> 14723
              kmacc |  -.0000459   .0000598    -0.77   0.443     -.000163     .00
> 00713
                age |   .0017767   .0009016     1.97   0.049     9.57e-06     .00
> 35438
              airw1 |   .0001451    .000069     2.10   0.036     9.74e-06     .00
> 02804
            radhlw1 |   .0246142   .0002874    85.65   0.000     .0240509     .02
> 51775
             havmil |   .0000286   .0000454     0.63   0.528    -.0000603     .00
> 01176
--------------------+---------------------------------------------------------
> ------
  PTSDw2 <-         |
             PTSDw1 |   .0674057   .0125948     5.35   0.000     .0427203     .09
> 20911
```

```
-------------+----------------------------------------------------------------
> ------
  crhtw2 <-  |
           kmwork |  -.0000458   .0007217    -0.06   0.949    -.0014603    .00
> 13686
      avgcumdosew1 |   .1798225   .0577666     3.11   0.002     .0666021     .2
> 93043
           radchw1 |  -.0021446   .0011832    -1.81   0.070    -.0044637    .00
> 01746
           radchw2 |      .0146   .0010744    13.59   0.000     .0124942    .01
> 67058
             airw2 |   .0025974   .0007155     3.63   0.000     .0011951    .00
> 39998
            crhtw1 |   .6798183   .0329717    20.62   0.000      .615195    .74
> 44417
             kmacc |   .0005008   .0007227     0.69   0.488    -.0009156    .00
> 19172
               age |   .0095362   .0024347     3.92   0.000     .0047642    .01
> 43081
             airw1 |   .0005285   .0003446     1.53   0.125    -.0001469    .00
> 12039
           radhlw1 |   .0156698   .0007737    20.25   0.000     .0141534    .01
> 71863
            havmil |  -.0000352   .0005549    -0.06   0.949    -.0011229    .00
> 10525
-------------+----------------------------------------------------------------
> ------
  MiPTSD <-  |
           kmwork |  -.0010714   .0052911    -0.20   0.840    -.0114418     .0
> 09299
      avgcumdosew1 |   2.677978   1.104943     2.42   0.015     .5123295    4.8
> 43626
           radchw1 |  -.0176595   .0072947    -2.42   0.015    -.0319568   -.00
> 33621
           radchw2 |   .0914224   .0067277    13.59   0.000     .0782364    .10
> 46085
             airw2 |   .0162647   .0044802     3.63   0.000     .0074836    .02
> 50458
            crhtw1 |  -.6145821   .8245169    -0.75   0.456    -2.230606    1.0
> 01441
            PTSDw2 |   .2589542    .069413     3.73   0.000     .1229072    .39
> 50013
            crhtw2 |   6.261799   .8793748     7.12   0.000     4.538256    7.9
> 85342
             kmacc |    .003536   .0053157     0.67   0.506    -.0068826    .01
> 39546
               age |   .2235545   .0506688     4.41   0.000     .1242455    .32
> 28635
             airw1 |   .0026027   .0022665     1.15   0.251    -.0018395    .00
```

```
> 70448
          radhlw1 |  -.0217859   .0155778    -1.40   0.162    -.0523178    .00
> 87459
           PTSDw1 |   .0647955   .0172434     3.76   0.000     .0309991    .09
> 85919
           havmil |  -.0008227   .0040787    -0.20   0.840    -.0088169    .00
> 71714
                  |
------------------------------------------------------------------------------
> ------

198 .
199 . // regular female path
200 . set more off

201 . sem (crhtw1 age kmwork goferw1  fdferw2-> crhtw2) (crhtw1  goferw1-> crhtw3)
    >  (crhtw1 fdferw1 -> PTSDw1) ///
    >  (crhtw1 fdferw1-> PTSDw2) (crhtw1 fdferw2 -> MiPTSD) (crhtw2 -> crhtw3) ///
    >  (crhtw2 -> PTSDw2) (crhtw2 -> MiPTSD)  (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD
    > ) ///
    >  (age havmil kmwork 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 age kmwork goferw1 fdferw2 fdferw1 havmil

    Fitting target model:

    Iteration 0:   log likelihood = -16555.948
    Iteration 1:   log likelihood = -16555.948

    Structural equation model                       Number of obs      =       362
    Estimation method  = ml
    Log likelihood     = -16555.948
```

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.5978997	.0352374	16.97	0.000	.5288356	.6669638
age	.0067204	.0028199	2.38	0.017	.0011935	.0122473
kmwork	.000302	.0001433	2.11	0.035	.0000212	.0005829
goferw1	.003697	.0009446	3.91	0.000	.0018457	.0055483
fdferw2	.0031687	.0013177	2.40	0.016	.0005861	.0057513
_cons	-.4607364	.1448095	-3.18	0.001	-.7445579	-.1769149
crhtw3 <-						
crhtw2	1.035551	.0241144	42.94	0.000	.9882879	1.082815
crhtw1	-.1126471	.0215249	-5.23	0.000	-.1548352	-.070459
goferw1	.0010505	.0004297	2.44	0.015	.0002082	.0018928
_cons	-.0216496	.0191719	-1.13	0.259	-.0592257	.0159266
PTSDw1 <-						
crhtw1	.1802023	1.830742	0.10	0.922	-3.407986	3.768391
fdferw1	.1905237	.0456693	4.17	0.000	.1010135	.2800339
_cons	10.84177	2.397857	4.52	0.000	6.14206	15.54149
PTSDw2 <-						
crhtw2	.8650436	.6682401	1.29	0.195	-.4446829	2.17477
PTSDw1	.0638212	.0127881	4.99	0.000	.038757	.0888854
crhtw1	.0940193	.6013894	0.16	0.876	-1.084682	1.272721
fdferw1	.0093967	.0116693	0.81	0.421	-.0134748	.0322682
_cons	1.852971	.6005676	3.09	0.002	.6758803	3.030062
MiPTSD <-						
crhtw2	5.61472	.863879	6.50	0.000	3.921548	7.307892
PTSDw1	.0337288	.0169678	1.99	0.047	.0004725	.0669851
PTSDw2	.2458808	.0672094	3.66	0.000	.1141528	.3776087
crhtw1	-4.723429	.7902744	-5.98	0.000	-6.272338	-3.174519
age	.1975397	.0474226	4.17	0.000	.1045931	.2904863
kmwork	-.0067987	.0036698	-1.85	0.064	-.0139914	.000394
fdferw2	.1074096	.022037	4.87	0.000	.0642178	.1506014
havmil	.0065438	.0036331	1.80	0.072	-.0005769	.0136646
_cons	36.88496	2.46019	14.99	0.000	32.06307	41.70684
Variance						
e.crhtw2	.3595649	.0267262			.3108193	.4159553
e.crhtw3	.0793505	.0058981			.0685931	.091795
e.PTSDw1	1051.174	78.13318			908.6686	1216.03
e.PTSDw2	62.22138	4.624878			53.78613	71.97952
e.MiPTSD	100.934	7.502365			87.25055	116.7634

LR test of model vs. saturated: chi2(**23**) = **27.08**, Prob > chi2 = **0.2527**

202 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(**23**)	**27.077**	model vs. saturated
p > chi2	**0.253**	
chi2_bs(**45**)	**1312.214**	baseline vs. saturated
p > chi2	**0.000**	

203 . estat stable

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
-2.198e-16 + 8.325e-09*i*	**8.3e-09**
-2.198e-16 - 8.325e-09*i*	**8.3e-09**
-2.356e-10	**2.4e-10**
2.356e-10	**2.4e-10**
0	**0**

stability index = **8.32e-09**
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

204 . estat teffects

Direct effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	**.5978997**	**.0352374**	**16.97**	**0.000**	**.5288356**	**.6669638**
age	**.0067204**	**.0028199**	**2.38**	**0.017**	**.0011935**	**.0122473**
kmwork	**.000302**	**.0001433**	**2.11**	**0.035**	**.0000212**	**.0005829**
goferw1	**.003697**	**.0009446**	**3.91**	**0.000**	**.0018457**	**.0055483**
fdferw2	**.0031687**	**.0013177**	**2.40**	**0.016**	**.0005861**	**.0057513**
crhtw3 <-						

crhtw2	1.035551	.0241144	42.94	0.000	.9882879	1.082815
crhtw1	-.1126471	.0215249	-5.23	0.000	-.1548352	-.070459
age	0	(no path)				
kmwork	0	(no path)				
goferw1	.0010505	.0004297	2.44	0.015	.0002082	.0018928
fdferw2	0	(no path)				
PTSDw1 <-						
crhtw1	.1802023	1.830742	0.10	0.922	-3.407986	3.768391
fdferw1	.1905237	.0456693	4.17	0.000	.1010135	.2800339
PTSDw2 <-						
crhtw2	.8650436	.6682401	1.29	0.195	-.4446829	2.17477
PTSDw1	.0638212	.0127881	4.99	0.000	.038757	.0888854
crhtw1	.0940193	.6013894	0.16	0.876	-1.084682	1.272721
age	0	(no path)				
kmwork	0	(no path)				
goferw1	0	(no path)				
fdferw2	0	(no path)				
fdferw1	.0093967	.0116693	0.81	0.421	-.0134748	.0322682
MiPTSD <-						
crhtw2	5.61472	.863879	6.50	0.000	3.921548	7.307892
PTSDw1	.0337288	.0169678	1.99	0.047	.0004725	.0669851
PTSDw2	.2458808	.0672094	3.66	0.000	.1141528	.3776087
crhtw1	-4.723429	.7902744	-5.98	0.000	-6.272338	-3.174519
age	.1975397	.0474226	4.17	0.000	.1045931	.2904863
kmwork	-.0067987	.0036698	-1.85	0.064	-.0139914	.000394
goferw1	0	(no path)				
fdferw2	.1074096	.022037	4.87	0.000	.0642178	.1506014
fdferw1	0	(no path)				
havmil	.0065438	.0036331	1.80	0.072	-.0005769	.0136646

Indirect effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	0	(no path)				
age	0	(no path)				
kmwork	0	(no path)				
goferw1	0	(no path)				
fdferw2	0	(no path)				
crhtw3 <-						

crhtw2	0	(no path)				
crhtw1	.6191558	.0392353	15.78	0.000	.5422559	.6960556
age	.0069593	.0029246	2.38	0.017	.0012271	.0126915
kmwork	.0003128	.0001486	2.11	0.035	.0000216	.000604
goferw1	.0038285	.0009822	3.90	0.000	.0019034	.0057535
fdferw2	.0032814	.0013667	2.40	0.016	.0006028	.00596
PTSDw1 <-						
crhtw1	0	(no path)				
fdferw1	0	(no path)				
PTSDw2 <-						
crhtw2	0	(no path)				
PTSDw1	0	(no path)				
crhtw1	.5287101	.4174198	1.27	0.205	-.2894178	1.346838
age	.0058134	.0051106	1.14	0.255	-.0042031	.01583
kmwork	.0002613	.0002369	1.10	0.270	-.000203	.0007255
goferw1	.0031981	.0026021	1.23	0.219	-.001902	.0082981
fdferw2	.0027411	.0024048	1.14	0.254	-.0019722	.0074544
fdferw1	.0121595	.0037989	3.20	0.001	.0047138	.0196051
MiPTSD <-						
crhtw2	.2126976	.1643074	1.29	0.195	-.109339	.5347342
PTSDw1	.0156924	.0031443	4.99	0.000	.0095296	.0218552
PTSDw2	0	(no path)				
crhtw1	3.516235	.5733546	6.13	0.000	2.39248	4.639989
age	.0391626	.0174609	2.24	0.025	.0049399	.0733853
kmwork	.0017601	.0008761	2.01	0.045	.0000429	.0034773
goferw1	.0215441	.0063909	3.37	0.001	.0090181	.0340701
fdferw2	.0184655	.0081675	2.26	0.024	.0024575	.0344735
fdferw1	.0117264	.0048194	2.43	0.015	.0022805	.0211722
havmil	0	(no path)				

Total effects

	OIM Coef.	Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	.5978997	.0352374	16.97	0.000	.5288356	.6669638
age	.0067204	.0028199	2.38	0.017	.0011935	.0122473
kmwork	.000302	.0001433	2.11	0.035	.0000212	.0005829
goferw1	.003697	.0009446	3.91	0.000	.0018457	.0055483
fdferw2	.0031687	.0013177	2.40	0.016	.0005861	.0057513
crhtw3 <-						

crhtw2	1.035551	.0241144	42.94	0.000	.9882879	1.082815
crhtw1	.5065086	.0397895	12.73	0.000	.4285227	.5844946
age	.0069593	.0029246	2.38	0.017	.0012271	.0126915
kmwork	.0003128	.0001486	2.11	0.035	.0000216	.000604
goferw1	.0048789	.0010626	4.59	0.000	.0027964	.0069615
fdferw2	.0032814	.0013667	2.40	0.016	.0006028	.00596
PTSDw1 <-						
crhtw1	.1802023	1.830742	0.10	0.922	-3.407986	3.768391
fdferw1	.1905237	.0456693	4.17	0.000	.1010135	.2800339
PTSDw2 <-						
crhtw2	.8650436	.6682401	1.29	0.195	-.4446829	2.17477
PTSDw1	.0638212	.0127881	4.99	0.000	.038757	.0888854
crhtw1	.6227294	.4615092	1.35	0.177	-.281812	1.527271
age	.0058134	.0051106	1.14	0.255	-.0042031	.01583
kmwork	.0002613	.0002369	1.10	0.270	-.000203	.0007255
goferw1	.0031981	.0026021	1.23	0.219	-.001902	.0082981
fdferw2	.0027411	.0024048	1.14	0.254	-.0019722	.0074544
fdferw1	.0215562	.0117725	1.83	0.067	-.0015175	.0446299
MiPTSD <-						
crhtw2	5.827418	.8793656	6.63	0.000	4.103893	7.550943
PTSDw1	.0494212	.0172567	2.86	0.004	.0155987	.0832437
PTSDw2	.2458808	.0672094	3.66	0.000	.1141528	.3776087
crhtw1	-1.207194	.6409172	-1.88	0.060	-2.463368	.0489807
age	.2367023	.049625	4.77	0.000	.139439	.3339655
kmwork	-.0050386	.0037553	-1.34	0.180	-.0123989	.0023217
goferw1	.0215441	.0063909	3.37	0.001	.0090181	.0340701
fdferw2	.1258751	.0230024	5.47	0.000	.0807912	.170959
fdferw1	.0117264	.0048194	2.43	0.015	.0022805	.0211722
havmil	.0065438	.0036331	1.80	0.072	-.0005769	.0136646

```
205 .
206 . // robust path model
207 . 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**

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

209 . estat stable

    Stability analysis of simultaneous equation systems
```

Eigenvalue stability condition

Eigenvalue	Modulus
2.597e-08	**2.6e-08**
-2.597e-08	**2.6e-08**
-2.796e-17 + 1.313e-09*i*	**1.3e-09**
-2.796e-17 - 1.313e-09*i*	**1.3e-09**
8.882e-16	**8.9e-16**

stability index = **2.60e-08**
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.

```
210 . estat teffects
```

Direct effects

(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**
crhtw3 <-						
crhtw2	**1.051234**	**.0277728**	**37.85**	**0.000**	**.9967999**	**1.105667**
crhtw1	**-.1166559**	**.0316122**	**-3.69**	**0.000**	**-.1786147**	**-.054697**
PTSDw1 <-						
crhtw1	**1.423881**	**1.804336**	**0.79**	**0.430**	**-2.112553**	**4.960315**
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
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

Indirect effects

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

	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
Structural						
crhtw2 <-						
crhtw1	0	(no path)				
crhtw3 <-						
crhtw2	0	(no path)				
crhtw1	.6620828	.0497097	13.32	0.000	.5646536	.759512
PTSDw1 <-						
crhtw1	0	(no path)				
PTSDw2 <-						
crhtw2	0	(no path)				
PTSDw1	0	(no path)				
crhtw1	.7144187	.3638013	1.96	0.050	.0013813	1.427456
MiPTSD <-						
crhtw2	3.520807	.1764301	19.96	0.000	3.17501	3.866604
crhtw3	0	(no path)				
PTSDw1	.017617	.0040514	4.35	0.000	.0096763	.0255577
PTSDw2	0	(no path)				
crhtw1	4.259236	.7494689	5.68	0.000	2.790304	5.728168

Total effects

(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**
crhtw3 <-						
crhtw2	**1.051234**	**.0277728**	**37.85**	**0.000**	**.9967999**	**1.105667**
crhtw1	**.5454269**	**.0449103**	**12.14**	**0.000**	**.4574044**	**.6334495**
PTSDw1 <-						
crhtw1	**1.423881**	**1.804336**	**0.79**	**0.430**	**-2.112553**	**4.960315**
PTSDw2 <-						
crhtw2	**.9851263**	**.5144778**	**1.91**	**0.056**	**-.0232317**	**1.993484**
PTSDw1	**.0659966**	**.0151775**	**4.35**	**0.000**	**.0362494**	**.0957439**
crhtw1	**.7910495**	**.4830154**	**1.64**	**0.101**	**-.1556434**	**1.737742**
MiPTSD <-						
crhtw2	**7.132518**	**2.483768**	**2.87**	**0.004**	**2.264423**	**12.00061**
crhtw3	**3.099064**	**2.173102**	**1.43**	**0.154**	**-1.160138**	**7.358265**
PTSDw1	**.0759452**	**.0187906**	**4.04**	**0.000**	**.0391163**	**.1127741**
PTSDw2	**.2669377**	**.0937**	**2.85**	**0.004**	**.0832891**	**.4505864**
crhtw1	**-.1059661**	**.7470832**	**-0.14**	**0.887**	**-1.570222**	**1.35829**

```
211 .
212 .
213 .  save chwide25jul2012, replace
    file chwide25jul2012.dta saved

214 .  use ch3wMaster22jul2012, clear
```

```
215 .  mi xtset id wave
           panel variable:  id (strongly balanced)
            time variable:  wave, 1 to 3
                    delta:  1 unit

216 .  use chwide25jul2012, clear
    (Chornobyl sequelae for both sexes   women=362  men = 340 wide format)

217 . label var crhtw2 "Chornobyl related health threat in wave 2 alpha=.822"

218 . label var crhtw3 "Chornobyl rleated health threat in wave 3 alpha=0.833"

219 .
220 .  save chwide22jul2012, replace
    file chwide22jul2012.dta saved

221 .
222 .
223 .  use ch3w22jul2012, clear

224 . sjlog using PTSDpanel, replace
```