

```

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);

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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-SSocspt);
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);

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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*

```

variable name	storage type	display format	value 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 rlated 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	Number of obs =	339
Model	88945.9816	1	88945.9816	F(1, 337) =	70.60
Residual	424566.113	337	1259.8401	Prob > F =	0.0000
Total	513512.094	338	1519.26655	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	Number of obs =	339
Model	7220.64144	1	7220.64144	F(1, 337) =	51.84
Residual	46936.7285	337	139.278126	Prob > F =	0.0000
Total	54157.37	338	160.228905	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	Number of obs =	339
Model	6616.91939	1	6616.91939	F(1, 337) =	53.02
Residual	42060.1163	337	124.807467	Prob > F =	0.0000
Total	48677.0357	338	144.014898	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	Number of obs =	362
Model	653.189301	1	653.189301	F(1, 360) =	0.59
Residual	398819.808	360	1107.8328	Prob > F =	0.4431
Total	399472.997	361	1106.5734	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	Number of obs = 363		
Model	384.3236	1	384.3236	F(1, 361) =	5.71	
Residual	24311.2565	361	67.3442008	Prob > F =	0.0174	
				R-squared =	0.0156	
				Adj R-squared =	0.0128	
Total	24695.5801	362	68.2198345	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	Number of obs = 363		
Model	542.295421	1	542.295421	F(1, 361) =	7.63	
Residual	25643.2934	361	71.0340538	Prob > F =	0.0060	
				R-squared =	0.0207	
				Adj R-squared =	0.0180	
Total	26185.5888	362	72.3358808	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	Number of obs =	339
Model	7481.97182	1	7481.97182	F(1, 337) =	62.27
Residual	40488.6889	337	120.144478	Prob > F =	0.0000
				R-squared =	0.1560
				Adj R-squared =	0.1535
Total	47970.6608	338	141.925032	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	Number of obs =	339
Model	12627.3854	1	12627.3854	F(1, 337) =	120.40
Residual	35343.2753	337	104.876188	Prob > F =	0.0000
				R-squared =	0.2632
				Adj R-squared =	0.2610
Total	47970.6608	338	141.925032	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
Model	13564.0698	1	13564.0698	F(1, 337) =	132.86
Residual	34406.591	337	102.096709	Prob > F =	0.0000
Total	47970.6608	338	141.925032	R-squared =	0.2828
				Adj R-squared =	0.2806
				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
Model	3.61764538	1	3.61764538	F(1, 360) =	0.02
Residual	52388.6807	360	145.524113	Prob > F =	0.8748
Total	52392.2983	361	145.13102	R-squared =	0.0001
				Adj R-squared =	-0.0027
				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
Model	4018.3944	1	4018.3944	F(1, 361) =	29.86
Residual	48586.702	361	134.589202	Prob > F =	0.0000
Total	52605.0964	362	145.317946	R-squared =	0.0764
				Adj R-squared =	0.0738
				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
Model	5094.8758	1	5094.8758	F(1, 361) =	38.71
Residual	47510.2206	361	131.607259	Prob > F =	0.0000
Total	52605.0964	362	145.317946	R-squared =	0.0969
				Adj R-squared =	0.0943
				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

```

```

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> *
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> *

```

Robust Residual Diagnostics :

```

*****                               26 Jul 2012    09:25:57    ****
> *
*****
> *
*****
> *

```

```

(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 structural 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)

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
			Mean	-1.32e-09
50%	-.0985015		Std. Dev.	1
		Largest		
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

Variable	Obs	Pr(Skewness)	Pr(Kurtosis)	adj chi2(2)	joint 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 heuristic only as these scores are not strictly additive

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 + strbrk

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 Ramsey RESET test

strbrk = Existence of structural break in residual variance between 4 sample segments

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 violated

87 .

88 . cap drop r4

89 . regress MiPTSD crhtw1 if gender==2, vce(cluster id) // only 50% of assumptions fulfilled

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)

	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
crhtwl	-.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
```

```

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> *
*****
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*****
Robust Residual Diagnostics :
*****
> *
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> *
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26 Jul 2012      09:26:08
> *
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> *
*****
> *
*****

```

```
(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 diagnostics

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 structural 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	Largest	Mean	.0014245
			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

Computing the leverage h

	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)	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 heuristic only as these scores are not strictly additive

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 + strbrk
 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 Ramsey's RESET test

strbrk = Existence of structural break in residual variance between 4 segments

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 violated

```

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	Robust					
	Coef.	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	Robust					
	Coef.	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 .
```


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

PTSDw1	Robust					
	Coef.	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	Robust					
	Coef.	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 multivariate regression model
106 .
107 . local demogs age i.educ i.marrw1 i.marrw2 i.marrw3 childw1 childw2 childw3 i
    > .emplw1 i.emplw2 ///
    > i.emplw3 inclw1-inc4w3 occ1w1-occ8w3

108 . mvreg ptsdw1 ptsdw2 ptsdw3 = `demogs' airw1 radchw1 injothr BSIddep 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 multivariate regression model
112 . mvreg ptsdw1 ptsdw2 ptsdw3 = i.emplw3 inc4w1 airw1 radchw1 injothr BSIanx B
    > SIddep 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
BSIdcp	.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
BSIdcp	.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
BSIdcp	.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
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```

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 inclw1-inc4w3 occ1w1-occ8w3

```

```

116 . mvreg ptsdw1 ptsdw2 ptsdw3 = `demogs' airw1 radchw1 injothr BSIdcp BSIdanx 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
BSIdcp	.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						
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
inclw1						
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
inclw2	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
inclw3	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.marw2 i.marw3 childw1 inc4w1 airw1 airw2 airw3 radchw
> 1 ///
> radchw2 radchw3 injothr BSIanx BSIddep 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
BSIdcp	.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 marrw1 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)

MiPTSD	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
marrw1	-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 marrw1 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)

MiPTSD	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
marrw1	-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 inclw3-inc4w3 occ1w2-occ8w3

135 . set more off

136 .
137 . regress MiPTSD `demogs' injothr BSIanx BSIdcp relselfr ///
    >   healthf 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
inclw3	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

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

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```

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

146 . regress MiPTSD marrw1 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
>     occ8w2 airw1 radchw1 injothr BSIanx BSIddep ///
>     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)

MiPTSD	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
marrw1	-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
BSIddep	.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 marrw1 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
    >     occ8w2 airw1  radchw1 injothr BSIanx BSIddep  ///
    >     healthef crhtw1 {
      2.  foreach wvar in  marrw1 i.marrw2 occ1w1 occ2w1 occ1w2 occ2w2-occ4w2 ///
    >     occ8w2 airw1  radchw1 injothr BSIanx BSIddep  ///
    >     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 BSIddep  ///
    >     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)

		Coef.	Robust Std. Err.	t	P> t	[95% Conf. Inter	
MiPTSD							
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							

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

> _____

```

152 .
153 .
154 . //trimmed female moderator model
155 .
156 . regress MiPTSD i.educ occ1w2-occ8w3 inclw3-inc4w3 injothr healthef ///
>       relselfr BSIddep BSIanx ///
>       if gender==2, vce(cluster id)

```

Linear regression

Number of obs =	363
<u>F(28, 362) =</u>	.
Prob > F =	.
R-squared =	0.4617
Root MSE =	9.2491

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

MiPTSD	Robust					
	Coef.	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
BSIdcp	.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 inclw3-inc4w3 injothr healthef ///
>       relselfr BSIddep BSIanx {
2.         cap gen `xvar'Xc1 = `xvar'*crhtw1
3.         }

160 .
161 . // Significant moderator effects for females of air and relocate self
162 . regress MiPTSD i.educ occ1w2-occ8w3 inclw3-inc4w3 injothr healthef ///
>       relselfr BSIddep 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)

MiPTSD	Coef.	Robust 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
inclw3	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
reselfr	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
airwlXc1	.0435927	.0164779	2.65	0.009	.0111877	.0759978
reselfrXc1	4.783147	2.075833	2.30	0.022	.7008638	8.865429
crhtwl	-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"
```

```
*****
> *
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*****
Mediator analysis begins here
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26 Jul 2012    09:26:21 *****
> *
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> *
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> -----
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

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      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

```

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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>i</i>	.000042
.00002939 - .00002941 <i>i</i>	.000042
-.00002939 + .00002937 <i>i</i>	.000042
-.00002939 - .00002937 <i>i</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

> _____		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> _____							
Structural							
avgcumdosew2 <-	age	.0042741	.0030971	1.38	0.168	-.0017961	.01
> 03442							
avgcumdosew1		1.150662	.0219955	52.31	0.000	1.107552	1.1
> 93772							
illw1		.1267012	.0977114	1.30	0.195	-.0648096	.31
> 82121							
havmil		-.0004914	.0003429	-1.43	0.152	-.0011634	.00
> 01806							
icdxcnt		.0337108	.0229542	1.47	0.142	-.0112785	.07
> 87002							
radchw1		.0022718	.0009887	2.30	0.022	.000334	.00
> 42097							
> _____							
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							
> _____							
crhtw2 <-	avgcumdosew2	.065308	.0352059	1.86	0.064	-.0036943	.13
> 43104							
crhtw1		.7972845	.0253508	31.45	0.000	.7475978	.84
> 69712							

	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							

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

Total effects

> _____		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> _____							
Structural							
avgcumdosew2 <-	age	.0042741	.0030971	1.38	0.168	-.0017961	.01
> 03442							
avgcumdosew1		1.150662	.0219955	52.31	0.000	1.107552	1.1
> 93772							
illw1		.1267012	.0977114	1.30	0.195	-.0648096	.31
> 82121							
havmil		-.0004914	.0003429	-1.43	0.152	-.0011634	.00
> 01806							
icdxcnt		.0337108	.0229542	1.47	0.142	-.0112785	.07
> 87002							
radchw1		.0022718	.0009887	2.30	0.022	.000334	.00
> 42097							
> _____							
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							
> _____							
crhtw2 <-	avgcumdosew2	.065308	.0352059	1.86	0.064	-.0036943	.13
> 43104							
crhtw1		.7972845	.0253508	31.45	0.000	.7475978	.84
> 69712							
age		.0132389	.003023	4.38	0.000	.0073139	.01
> 91639							
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

```

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

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

> _____

```

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

Estimation method = **ml**

Log likelihood = **-4935.7279**

Number of obs = **339**

	OIM				[95% Conf. Interval]	
	Coef.	Std. Err.	z	P> z		
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-06i	7.4e-06
-3.696e-06 - 6.401e-06i	7.4e-06
1.039e-17 + 9.511e-10i	9.5e-10
1.039e-17 - 9.511e-10i	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

	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw2 <- crhtw1	.808673	.0311482	25.96	0.000	.7476236	.8697223
crhtw3 <- crhtw2 crhtw1	1.055212 -.1183935	.0258798 .0256569	40.77 -4.61	0.000 0.000	1.004489 -.1686801	1.105936 -.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 crhtw1	0 .8533216	(no path) .0389653	21.90	0.000	.776951	.9296922
PTSDw1 <- crhtw1	0	(no path)				
PTSDw2 <- crhtw2 PTSDw1 crhtw1	0 0 5.433147	(no path) (no path) .980717	5.54	0.000	3.510977	7.355317
MiPTSD <- crhtw2 crhtw3 PTSDw1 PTSDw2 crhtw1	7.165222 0 .0310115 0 6.73352	.3321059 (no path) .0044684 (no path) .8599438	21.58	0.000	6.514306	7.816138
			6.94	0.000	.0222535	.0397695
			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
crhtw3 <- 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
PTSDw2 <- PTSDw1	.1174034	.0169167	6.94	0.000	.0842474	.1505595
PTSDw2 <- 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
MiPTSD <- crhtw3	5.742549	1.857988	3.09	0.002	2.10096	9.384138
MiPTSD <- PTSDw1	.1209542	.0149054	8.11	0.000	.0917401	.1501683
MiPTSD <- PTSDw2	.2641445	.0428121	6.17	0.000	.1802343	.3480547
MiPTSD <- 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-06i	7.4e-06
-3.696e-06 - 6.401e-06i	7.4e-06
1.039e-17 + 9.511e-10i	9.5e-10
1.039e-17 - 9.511e-10i	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
crhtw3 <- 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
PTSDw2 <- PTSDw1	.1174034	.0225907	5.20	0.000	.0731264	.1616804
PTSDw2 <- crhtw1	-1.207601	.8573454	-1.41	0.159	-2.887967	.4727654
MiPTSD <- crhtw2	-.2129708	2.284107	-0.09	0.926	-4.689737	4.263796
MiPTSD <- 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 crhtw1	0 .8533216	(no path) .050095	17.03	0.000	.7551372	.9515061
PTSDw1 <- crhtw1	0	(no path)				
PTSDw2 <- crhtw2 PTSDw1 crhtw1	0 0 5.433147	(no path) (no path) 1.028607	5.28	0.000	3.417115	7.449179
MiPTSD <- crhtw2 crhtw3 PTSDw1 PTSDw2 crhtw1	7.165222 0 .0310115 0 6.73352	.3311412 (no path) .0059672 (no path) 1.01958	21.64 5.20 6.60	0.000 0.000 0.000	6.516197 .0193159 4.735179	7.814247 .042707 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


```

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

```

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

```

```

      _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>i</i>	.000207
.00009893 - .00018164 <i>i</i>	.000207
-.00010516 + .0001709 <i>i</i>	.000201
-.00010516 - .0001709 <i>i</i>	.000201
-.00019703	.000197
-1.042e-16 + 1.201e-09 <i>i</i>	1.2e-09
-1.042e-16 - 1.201e-09 <i>i</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		
> rval]							
> _____							
Structural							
kmwork <- havmil	.7678895	.0343703	22.34	0.000	.7005248	.83	
> 52541							
> _____							
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							
havmil	0	(no path)					
> _____							
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      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	
> rval]							
> _____							
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 <-							

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

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> _____							
> rval]							
> _____							
Structural							
kmwork <-							
	havmil	.7678895	.0343703	22.34	0.000	.7005248	.83
> 52541							
> _____							
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							
	havmil	-.0002983	.000836	-0.36	0.721	-.0019368	.00
> 13402							
> _____							
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							
	havmil	.032951	.0509352	0.65	0.518	-.0668802	.13
> 27821							
> _____							
radchw2 <-							
	kmwork	.0345418	.0640757	0.54	0.590	-.0910443	.16
> 01278							
	avgcumdosew1	4.420976	2.229713	1.98	0.047	.0508189	8.7
> 91134							
	radchw1	.6597837	.0330808	19.94	0.000	.5949466	.72
> 46208							
	kmacc	-.0091983	.0640048	-0.14	0.886	-.1346455	.11
> 62489							

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

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

```

Endogenous variables

Observed: **crhtw2 crhtw3 PTSDw1 PTSDw2 MiPTSD**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

```

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

```

```

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

```

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
	crhtw2 <-					
	crhtw1	.6298151	.0354846	17.75	0.000	.5602666 .6993636
	_cons	.0885394	.0338073	2.62	0.009	.0222783 .1548005
crhtw3 <-						
	crhtw2	1.051234	.0234364	44.85	0.000	1.005299 1.097168
	crhtw1	-.1166559	.0216388	-5.39	0.000	-.1590671 -.0742447

_cons	.0072487	.0152171	0.48	0.634	-.0225762	.0370736
PTSDw1 <-						
crhtw1	1.423881	1.849218	0.77	0.441	-2.20052	5.048282
_cons	17.80774	1.76181	10.11	0.000	14.35465	21.26082
PTSDw2 <-						
crhtw2	.9851263	.6519713	1.51	0.131	-.2927141	2.262967
PTSDw1	.0659966	.0125106	5.28	0.000	.0414762	.0905171
crhtw1	.0766308	.6015396	0.13	0.899	-1.102365	1.255627
_cons	2.147164	.4770868	4.50	0.000	1.212091	3.082237
MiPTSD <-						
crhtw2	3.611711	2.237003	1.61	0.106	-.7727343	7.996156
crhtw3	3.099064	1.963337	1.58	0.114	-.7490059	6.947133
PTSDw1	.0583282	.0173943	3.35	0.001	.024236	.0924204
PTSDw2	.2669377	.0705756	3.78	0.000	.1286121	.4052634
crhtw1	-4.365202	.8365525	-5.22	0.000	-6.004815	-2.72559
_cons	47.04229	.655743	71.74	0.000	45.75706	48.32753
Variance						
e.crhtw2	.4056681	.0301531			.3506724	.4692888
e.crhtw3	.0806603	.0059954			.0697253	.0933102
e.PTSDw1	1101.712	81.88962			952.3549	1274.493
e.PTSDw2	62.33283	4.633163			53.88247	72.10845
e.MiPTSD	111.4816	8.286364			96.36825	128.9652

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

201 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(3)	3.980	model vs. saturated
p > chi2	0.264	
chi2_bs(15)	1185.892	baseline vs. saturated
p > chi2	0.000	

202 . 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-09i	1.3e-09
-2.796e-17 - 1.313e-09i	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.

203 . estat teffects

Direct effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw2 <- crhtw1	.6298151	.0354846	17.75	0.000	.5602666	.6993636
crhtw3 <- crhtw2 crhtw1	1.051234 -.1166559	.0234364 .0216388	44.85 -5.39	0.000 0.000	1.005299 -.1590671	1.097168 -.0742447
PTSDw1 <- crhtw1	1.423881	1.849218	0.77	0.441	-2.20052	5.048282
PTSDw2 <- crhtw2 PTSDw1 crhtw1	.9851263 .0659966 .0766308	.6519713 .0125106 .6015396	1.51 5.28 0.13	0.131 0.000 0.899	-.2927141 .0414762 -1.102365	2.262967 .0905171 1.255627
MiPTSD <- crhtw2 crhtw3 PTSDw1 PTSDw2 crhtw1	3.611711 3.099064 .0583282 .2669377 -4.365202	2.237003 1.963337 .0173943 .0705756 .8365525	1.61 1.58 3.35 3.78 -5.22	0.106 0.114 0.001 0.000 0.000	-.7727343 -.7490059 .024236 .1286121 -6.004815	7.996156 6.947133 .0924204 .4052634 -2.72559

Indirect effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw2 <- crhtw1	0	(no path)				
crhtw3 <- crhtw2 crhtw1	0 .6620828	(no path) .0401168	16.50	0.000	.5834553	.7407102
PTSDw1 <- crhtw1	0	(no path)				
PTSDw2 <- crhtw2 PTSDw1 crhtw1	0 0 .7144187	(no path) (no path) .4295243	1.66	0.096	-.1274335	1.556271
MiPTSD <- crhtw2 crhtw3 PTSDw1 PTSDw2 crhtw1	3.520807 0 .017617 0 4.259236	.1885833 (no path) .0033396 (no path) .673619	18.67 5.28 6.32	0.000 0.000 0.000	3.151191 .0110716 2.938967	3.890424 .0241624 5.579505

Total effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw2 <- crhtw1	.6298151	.0354846	17.75	0.000	.5602666	.6993636
crhtw3 <- crhtw2 crhtw1	1.051234 .5454269	.0234364 .0405197	44.85 13.46	0.000 0.000	1.005299 .4660098	1.097168 .624844
PTSDw1 <- crhtw1	1.423881	1.849218	0.77	0.441	-2.20052	5.048282
PTSDw2 <-						

crhtw2	.9851263	.6519713	1.51	0.131	-.2927141	2.262967
PTSDw1	.0659966	.0125106	5.28	0.000	.0414762	.0905171
crhtw1	.7910495	.4578115	1.73	0.084	-.1062445	1.688343
MiPTSD <-						
crhtw2	7.132518	2.244938	3.18	0.001	2.732521	11.53252
crhtw3	3.099064	1.963337	1.58	0.114	-.7490059	6.947133
PTSDw1	.0759452	.017712	4.29	0.000	.0412303	.11066
PTSDw2	.2669377	.0705756	3.78	0.000	.1286121	.4052634
crhtw1	-.1059661	.6678314	-0.16	0.874	-1.414892	1.202959

```

204 .
205 . // robust path model
206 . 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

207 . estat gof

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

208 . 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-09i	1.3e-09
-2.796e-17 - 1.313e-09i	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.

209 . 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
crhtw3 <- 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 <- crhtw2	.0659966	.0151775	4.35	0.000	.0362494	.0957439
PTSDw2 <- crhtw1	.0766308	.5442594	0.14	0.888	-.9900981	1.14336
MiPTSD <- crhtw2	3.611711	2.45526	1.47	0.141	-1.20051	8.423931
MiPTSD <- 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 crhtw1	0 .6620828	(no path) .0497097	13.32	0.000	.5646536	.759512
PTSDw1 <- crhtw1	0	(no path)				
PTSDw2 <- crhtw2 PTSDw1 crhtw1	0 0 .7144187	(no path) (no path) .3638013	1.96	0.050	.0013813	1.427456
MiPTSD <- crhtw2 crhtw3 PTSDw1 PTSDw2 crhtw1	3.520807 0 .017617 0 4.259236	.1764301 (no path) .0040514 (no path) .7494689	19.96 4.35 5.68	0.000 0.000 0.000	3.17501 .0096763 2.790304	3.866604 .0255577 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

```

210 .
211 .
212 . save chwide25jul2012, replace
    file chwide25jul2012.dta saved

213 . use ch3wMaster22jul2012, clear

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

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

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

217 . label var crhtw3 "Chornobyl rlated health threat in wave 3 alpha=0.833"

218 .
219 . save chwide22jul2012, replace
    file chwide22jul2012.dta saved

220 .
221 .
222 . use ch3w22jul2012, clear

223 . sjlog using PTSDpanel, replace

```