

```

1 .
2 .
3 . **----- BSIanxiety models 23 July 2012\
4 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxPathMod
   > el
   /Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxPathModel

5 . use chwide27jul2012, clear
   (Chornobyl sequelae for both sexes  women=362  men = 340 wide format)

6 . save chwide28jul2012, replace
   file chwide28jul2012.dta saved

7 .
8 .
9 . // Preliminary scan of potential variables for the model
10 . sw, pr(.05): regress anxagw1 medw1 carcin healthef dvcew1 shrelaw1 cloud sep
    > aw1 shfamw1 ///
    > efradw1 kzunder shjobw1 illw1 airw1 illw2 illw3 injselfr radchw1 ///
    > radtlw1, beta

                                begin with full model
p = 0.9503 >= 0.0500 removing efradw1
p = 0.9400 >= 0.0500 removing sepaw1
p = 0.8939 >= 0.0500 removing shfamw1
p = 0.8804 >= 0.0500 removing healthef
p = 0.8385 >= 0.0500 removing dvcew1
p = 0.7380 >= 0.0500 removing illw2
p = 0.5366 >= 0.0500 removing kzunder
p = 0.3870 >= 0.0500 removing cloud
p = 0.2679 >= 0.0500 removing illw3
p = 0.1865 >= 0.0500 removing medw1
p = 0.1480 >= 0.0500 removing radtlw1
p = 0.2352 >= 0.0500 removing radchw1

```

Source	SS	df	MS
Model	210598.966	6	35099.8276
Residual	717901.389	692	1037.42975
Total	928500.355	698	1330.22973

```

Number of obs =      699
F(   6,   692) =    33.83
Prob > F       =    0.0000
R-squared      =    0.2268
Adj R-squared  =    0.2201
Root MSE      =    32.209

```

anxagw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
injselfr	16.5679	2.696438	6.14	0.000	11.27372	21.86208
carcin	.1047563	.0423022	2.48	0.014	.0217002	.1878124
illw1	8.793733	2.843368	3.09	0.002	3.21107	14.3764
airw1	.100301	.0376172	2.67	0.008	.0264435	.1741586
shrelaw1	.13574	.0381786	3.56	0.000	.0607802	.2106997
shjobw1	.1736186	.0385867	4.50	0.000	.0978576	.2493796
_cons	-13.78759	3.528966	-3.91	0.000	-20.71635	-6.858825

11 .

12 . regress anxagw1 shjobw1 carcin injselfr illw1 airw1 shrelaw1, beta

Source	SS	df	MS	Number of obs =	701
Model	210457.191	6	35076.1985	F(6, 694) =	33.60
Residual	724490.386	694	1043.93427	Prob > F =	0.0000
Total	934947.578	700	1335.6394	R-squared =	0.2251
				Adj R-squared =	0.2184
				Root MSE =	32.31

anxagw1	Coef.	Std. Err.	t	P> t	Beta
shjobw1	.1783441	.0386615	4.61	0.000	.1819139
carcin	.1093962	.0423769	2.58	0.010	.0925847
injselfr	16.07103	2.696451	5.96	0.000	.2155317
illw1	8.749791	2.851996	3.07	0.002	.1053655
airw1	.1043187	.0376989	2.77	0.006	.1007481
shrelaw1	.1301517	.0382246	3.40	0.001	.1288623
_cons	-14.02376	3.53569	-3.97	0.000	.

13 . // best of above eq. include injselfr shjobw1 shrelaw1 airw1 illw1

14 .

15 .

```

16 .
17 . // Preliminary scan best illw2 air2 shfamw2
18 . regress anxagw2 medw2 healthef shfamw2 ///
    > airw2 illw2 injselfr , beta

```

Source	SS	df	MS	Number of obs =	700
Model	75884.313	6	12647.3855	F(6, 693) =	39.91
Residual	219628.774	693	316.924638	Prob > F =	0.0000
				R-squared =	0.2568
				Adj R-squared =	0.2504
Total	295513.087	699	422.765503	Root MSE =	17.802

anxagw2	Coef.	Std. Err.	t	P> t	Beta
medw2	-.0644696	.0215602	-2.99	0.003	-.0994252
healthef	.0584965	.0239877	2.44	0.015	.0860743
shfamw2	.1162643	.020381	5.70	0.000	.2045778
airw2	.1194136	.0205677	5.81	0.000	.2059528
illw2	6.629805	.9213631	7.20	0.000	.2455127
injselfr	3.441393	1.432769	2.40	0.017	.0820542
_cons	-1.970138	2.173143	-0.91	0.365	.

```

19 .
20 .
21 . // best include healthef carcin injselfr shfamw3 illw3
22 . regress BSIanx medw3 carcin healthef cloud shfamw3 ///
    > efradw1 kzunder illw3 injselfr, beta

```

Source	SS	df	MS	Number of obs =	702
Model	2064.26786	9	229.363095	F(9, 692) =	27.84
Residual	5700.25636	692	8.23736468	Prob > F =	0.0000
				R-squared =	0.2659
				Adj R-squared =	0.2563
Total	7764.52422	701	11.0763541	Root MSE =	2.8701

BSIanx	Coef.	Std. Err.	t	P> t	Beta
medw3	-.0070001	.0031772	-2.20	0.028	-.0728526
carcin	-.0369457	.0152493	-2.42	0.016	-.3433847
healthef	.0612284	.0154996	3.95	0.000	.5566889
cloud	.0092489	.003362	2.75	0.006	.1004649
shfamw3	.0126753	.0033508	3.78	0.000	.1363803
efradw1	-.0079247	.0033237	-2.38	0.017	-.0836476
kzunder	-.0122912	.004338	-2.83	0.005	-.1009266
illw3	.7574767	.1116625	6.78	0.000	.2433984
injselfr	.9343206	.2400413	3.89	0.000	.1376462

_cons	6.472068	.4205669	15.39	0.000	.
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```
23 .
24 .
25 . // all three waves have in comon illw
26 .
27 . // two waves have in common injselfr airw shfamw medw
28 .
29 . title "Trimmed male Perceived Chornobyl health risk and axiety"
```

```

*****
> *
*****
> *
*****
> *
*****
> *
*****
Trimmed male Perceived Chernobyl health risk and anxiety
> *
*****
> *
*****
> *
*****
31 Jul 2012 22:42:23
> *
*****
> *
*****
> *
*****

```

```
30 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
> SIanxPathModel/CPRanxXp2Male.stsem"
```

```

31 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
    > athModel/CPRanxXp2Male.stsem", replace
32 . set more off

33 . title4 "nonrobust version of male CPRanxmodel"
-----
nonrobust version of male CPRanxmodel
-----

34 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> BSIanx) ///
    > (crhtw1 -> illw2) (crhtw1 -> illw3) (crhtw2 -> crhtw3) ///
    > (crhtw3 -> BSIanx) (BSIanx -> crhtw2) (BSIanx -> crhtw3) ///
    > (anxagw2 -> BSIanx) (anxagw1 -> anxagw2) (age -> crhtw1) ///
    > (age -> anxagw1) (age -> illw2) (age -> illw3) (age -> shhlw1) ///
    > (illw1 -> crhtw1) (illw1 -> crhtw2) (illw1 -> anxagw2) (illw1 -> illw2) ///
    > (illw2 -> crhtw2) (illw2 -> BSIanx) (illw2 -> anxagw2) (illw2 -> illw3) ///
    > (illw3 -> BSIanx) (shhlw1 -> crhtw1) (shhlw1 -> anxagw1) (shhlw1 -> illw2)
    > ///
    > (shhlw1 -> shhlw2) (medcow1 -> crhtw1) (medcow1 -> illw1) (injselfr -> crht
    > w1) ///
    > (injselfr -> crhtw2) (injselfr -> anxagw1) (injselfr -> shhlw2) ///
    > (shhlw2 -> BSIanx) (shhlw2 -> anxagw2) (fdferw1 -> crhtw1) ///
    > (fdferw1 -> anxagw1) (fdferw1 -> shhlw1) (fdferw1 -> shhlw2) ///
    > if gender==1, nocapslatent nolog
    (1 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 BSIanx illw2 illw3 anxagw2 anxagw1 shhlw1
illw1 shhlw2**

Exogenous variables

Observed: **age medcow1 injselfr fdferw1**

Structural equation model	Number of obs	=	338
Estimation method	=	ml	
Log likelihood	=	-12440.196	

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
shhlw1	.0067949	.001248	5.44	0.000	.0043488	.009241
illw1	-.282427	.1132226	-2.49	0.013	-.5043392	-.0605148
age	.0105892	.0035599	2.97	0.003	.003612	.0175665
medcow1	.0774014	.0185537	4.17	0.000	.0410369	.1137659
injselfr	.4234589	.0896668	4.72	0.000	.2477153	.5992026
fdferw1	.0047849	.0011761	4.07	0.000	.0024797	.00709
_cons	-1.318965	.1675057	-7.87	0.000	-1.64727	-.9906595
crhtw2 <-						
crhtw1	.6691433	.0371926	17.99	0.000	.5962472	.7420393
BSIanx	.1594137	.0218403	7.30	0.000	.1166075	.2022199
illw2	.1088884	.057021	1.91	0.056	-.0028707	.2206474
illw1	.19639	.0824779	2.38	0.017	.0347363	.3580436
injselfr	.2071438	.0644996	3.21	0.001	.080727	.3335606
_cons	-1.458175	.1676577	-8.70	0.000	-1.786778	-1.129572
crhtw3 <-						
crhtw1	-.1692308	.0301004	-5.62	0.000	-.2282266	-.1102351
crhtw2	1.098573	.0329685	33.32	0.000	1.033956	1.163191
BSIanx	.025779	.0058248	4.43	0.000	.0143625	.0371954
_cons	-.2028395	.0478053	-4.24	0.000	-.2965361	-.1091429
BSIanx <-						
crhtw1	3.56879	.663507	5.38	0.000	2.26834	4.86924
crhtw3	-4.343319	.8791137	-4.94	0.000	-6.06635	-2.620288
illw2	1.02554	.3745729	2.74	0.006	.2913903	1.759689
illw3	2.18072	.3174626	6.87	0.000	1.558504	2.802935
anxagw2	.0532932	.0126184	4.22	0.000	.0285616	.0780248
shhlw2	.0135813	.0048893	2.78	0.005	.0039984	.0231642
_cons	4.894105	.4350247	11.25	0.000	4.041472	5.746738
illw2 <-						
crhtw1	-.1150813	.0371016	-3.10	0.002	-.1877991	-.0423634
shhlw1	.0035668	.0009371	3.81	0.000	.0017302	.0054034
illw1	.2254517	.0840124	2.68	0.007	.0607905	.3901129
age	.0108703	.0026321	4.13	0.000	.0057115	.0160291
_cons	-.415249	.1358797	-3.06	0.002	-.6815683	-.1489296
illw3 <-						
crhtw1	-.1187099	.0533166	-2.23	0.026	-.2232086	-.0142111
illw2	.5342986	.0813173	6.57	0.000	.3749196	.6936776
age	.0142082	.0041578	3.42	0.001	.006059	.0223574
cons	-.3755363	.2079273	-1.81	0.071	-.7830663	.0319937

anxagw2 <-						
illw2	7.011894	1.300299	5.39	0.000	4.463355	9.560434
anxagw1	.2572176	.0210681	12.21	0.000	.2159248	.2985103
illw1	9.243925	2.11863	4.36	0.000	5.091487	13.39636
shhlw2	-.0481587	.0201184	-2.39	0.017	-.0875901	-.0087273
_cons	2.121114	1.193449	1.78	0.076	-.218003	4.46023
anxagw1 <-						
shhlw1	.1884354	.0487396	3.87	0.000	.0929075	.2839632
age	.3486075	.138177	2.52	0.012	.0777857	.6194294
injselfr	13.73173	3.496715	3.93	0.000	6.878297	20.58517
fdferw1	.4031554	.045889	8.79	0.000	.3132147	.4930961
_cons	-19.77009	6.541741	-3.02	0.003	-32.59167	-6.948513
shhlw1 <-						
age	.3657232	.1455377	2.51	0.012	.0804747	.6509718
fdferw1	.3484067	.0454349	7.67	0.000	.259356	.4374574
_cons	5.028416	7.25053	0.69	0.488	-9.182361	19.23919
illw1 <-						
medcow1	.0306126	.0087136	3.51	0.000	.0135342	.047691
_cons	.0609222	.0212067	2.87	0.004	.0193578	.1024866
shhlw2 <-						
shhlw1	.6193291	.0505479	12.25	0.000	.5202571	.7184012
injselfr	-8.191038	3.481228	-2.35	0.019	-15.01412	-1.367956
fdferw1	.2081426	.0479588	4.34	0.000	.114145	.3021401
_cons	21.16132	2.687841	7.87	0.000	15.89324	26.42939
Variance						
e.crhtw1	.5412419	.041634			.4654943	.6293155
e.crhtw2	.2891173	.0391162			.221774	.3769099
e.crhtw3	.0683717	.0056729			.0581099	.0804456
e.BSIanx	11.32652	2.307404			7.59788	16.88499
e.illw2	.3075108	.0236547			.2644742	.3575505
e.illw3	.7337159	.0564397			.6310313	.8531099
e.anxagw2	191.356	14.71969			164.5754	222.4944
e.anxagw1	826.1404	63.54926			710.5208	960.5741
e.shhlw1	1029.114	79.16263			885.0881	1196.577
e.illw1	.126039	.0096953			.1083996	.1465487
e.shhlw2	902.5881	69.42985			776.2695	1049.462

LR test of model vs. saturated: chi2(58) = 70.34, Prob > chi2 = 0.1284

```
35 . title4 "robust version of male model"
```

```
robust version of male model
```

```
36 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> BSianx) ///
> (crhtw1 -> illw2) (crhtw1 -> illw3) (crhtw2 -> crhtw3) ///
> (crhtw3 -> BSianx) (BSianx -> crhtw2) (BSianx -> crhtw3) ///
> (anxagw2 -> BSianx) (anxagw1 -> anxagw2) (age -> crhtw1) ///
> (age -> anxagw1) (age -> illw2) (age -> illw3) (age -> shhlw1) ///
> (illw1 -> crhtw1) (illw1 -> crhtw2) (illw1 -> anxagw2) (illw1 -> illw2) ///
> (illw2 -> crhtw2) (illw2 -> BSianx) (illw2 -> anxagw2) (illw2 -> illw3) ///
> (illw3 -> BSianx) (shhlw1 -> crhtw1) (shhlw1 -> anxagw1) (shhlw1 -> illw2)
> ///
> (shhlw1 -> shhlw2) (medcow1 -> crhtw1) (medcow1 -> illw1) (injselfr -> crht
> w1) ///
> (injselfr -> crhtw2) (injselfr -> anxagw1) (injselfr -> shhlw2) ///
> (shhlw2 -> BSianx) (shhlw2 -> anxagw2) (fdferw1 -> crhtw1) ///
> (fdferw1 -> anxagw1) (fdferw1 -> shhlw1) (fdferw1 -> shhlw2) ///
> if gender==1, nocapslatent nolog vce(cluster id)
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 BSianx illw2 illw3 anxagw2 anxagw1 shhlw1
illw1 shhlw2**

Exogenous variables

Observed: **age medcow1 injselfr fdferw1**

```
Structural equation model                Number of obs      =       338
Estimation method = ml
Log pseudolikelihood= -12440.196
```

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtwl <-						
shhlwl	.0067949	.0013095	5.19	0.000	.0042284	.0093615
illwl	-.282427	.1399263	-2.02	0.044	-.5566774	-.0081766
age	.0105892	.0039758	2.66	0.008	.0027968	.0183817
medcowl	.0774014	.0174071	4.45	0.000	.0432842	.1115186
injselfr	.4234589	.0928434	4.56	0.000	.2414893	.6054286
fdferwl	.0047849	.0012394	3.86	0.000	.0023556	.0072141

_cons	-1.318965	.1750729	-7.53	0.000	-1.662101	-.975828
crhtw2 <-						
crhtw1	.6691433	.0436783	15.32	0.000	.5835354	.7547511
BSIanx	.1594137	.0287199	5.55	0.000	.1031238	.2157036
illw2	.1088884	.0687363	1.58	0.113	-.0258323	.2436091
illw1	.19639	.1131396	1.74	0.083	-.0253595	.4181395
injselfr	.2071438	.06427	3.22	0.001	.081177	.3331106
_cons	-1.458175	.2097459	-6.95	0.000	-1.86927	-1.047081
crhtw3 <-						
crhtw1	-.1692308	.0453624	-3.73	0.000	-.2581394	-.0803223
crhtw2	1.098573	.0411083	26.72	0.000	1.018003	1.179144
BSIanx	.025779	.0087203	2.96	0.003	.0086874	.0428705
_cons	-.2028395	.0709292	-2.86	0.004	-.3418582	-.0638208
BSIanx <-						
crhtw1	3.56879	1.022299	3.49	0.000	1.56512	5.57246
crhtw3	-4.343319	1.294891	-3.35	0.001	-6.881258	-1.805379
illw2	1.02554	.4156016	2.47	0.014	.2109755	1.840104
illw3	2.18072	.4547013	4.80	0.000	1.289521	3.071918
anxagw2	.0532932	.0148146	3.60	0.000	.0242571	.0823293
shhlw2	.0135813	.0045926	2.96	0.003	.0045799	.0225826
_cons	4.894105	.4955064	9.88	0.000	3.92293	5.86528
illw2 <-						
crhtw1	-.1150813	.0388386	-2.96	0.003	-.1912035	-.038959
shhlw1	.0035668	.0010324	3.45	0.001	.0015434	.0055903
illw1	.2254517	.110439	2.04	0.041	.0089953	.4419082
age	.0108703	.0026663	4.08	0.000	.0056445	.0160961
_cons	-.415249	.1235547	-3.36	0.001	-.6574117	-.1730862
illw3 <-						
crhtw1	-.1187099	.0548097	-2.17	0.030	-.2261349	-.0112848
illw2	.5342986	.1160697	4.60	0.000	.3068061	.7617911
age	.0142082	.0044506	3.19	0.001	.0054852	.0229312
_cons	-.3755363	.1981435	-1.90	0.058	-.7638904	.0128178
anxagw2 <-						
illw2	7.011894	1.915005	3.66	0.000	3.258553	10.76524
anxagw1	.2572176	.0371254	6.93	0.000	.1844531	.329982
illw1	9.243925	3.744652	2.47	0.014	1.904541	16.58331
shhlw2	-.0481587	.02348	-2.05	0.040	-.0941787	-.0021387
_cons	2.121114	.8974323	2.36	0.018	.3621786	3.880048
anxagw1 <-						
shhlw1	.1884354	.0568305	3.32	0.001	.0770495	.2998212
age	.3486075	.1502479	2.32	0.020	.054127	.643088
injselfr	13.73173	3.543758	3.87	0.000	6.786093	20.67737

fdferw1	.4031554	.056886	7.09	0.000	.291661	.5146499
_cons	-19.77009	6.102113	-3.24	0.001	-31.73001	-7.810169
shhlw1 <-						
age	.3657232	.142582	2.57	0.010	.0862677	.6451788
fdferw1	.3484067	.0507962	6.86	0.000	.2488479	.4479654
_cons	5.028416	7.001801	0.72	0.473	-8.694861	18.75169
illw1 <-						
medcow1	.0306126	.0123186	2.49	0.013	.0064686	.0547566
_cons	.0609222	.0172339	3.54	0.000	.0271443	.0947001
shhlw2 <-						
shhlw1	.6193291	.0533545	11.61	0.000	.5147561	.7239021
injselfr	-8.191038	3.463733	-2.36	0.018	-14.97983	-1.402247
fdferw1	.2081426	.0549006	3.79	0.000	.1005393	.3157459
_cons	21.16132	2.881208	7.34	0.000	15.51425	26.80838
Variance						
e.crhtw1	.5412419	.0391893			.4696335	.6237689
e.crhtw2	.2891173	.0576345			.1956096	.4273246
e.crhtw3	.0683717	.0200927			.0384353	.1216248
e.BSIanx	11.32652	3.34405			6.350198	20.20254
e.illw2	.3075108	.0518816			.2209277	.4280264
e.illw3	.7337159	.1241654			.5265997	1.022293
e.anxagw2	191.356	33.98078			135.1097	271.0175
e.anxagw1	826.1404	71.06761			697.9597	977.8614
e.shhlw1	1029.114	69.99265			900.6814	1175.861
e.illw1	.126039	.0345102			.0736955	.2155604
e.shhlw2	902.5881	74.68175			767.4669	1061.499

37 . sem,standardize

```

Structural equation model          Number of obs      =          338
Estimation method = ml
Log pseudolikelihood= -12440.196

```

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

Standardized	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
shhlw1	.2583025	.0501363	5.15	0.000	.1600371	.3565678
illw1	-.1095303	.0496061	-2.21	0.027	-.2067566	-.0123041
age	.1384048	.0517657	2.67	0.008	.0369458	.2398638
medcow1	.1840478	.0413044	4.46	0.000	.1030926	.265003
injselfr	.2271635	.0490562	4.63	0.000	.1310151	.3233118
fdferw1	.2003279	.0515663	3.88	0.000	.0992598	.301396
_cons	-1.41521	.1853521	-7.64	0.000	-1.778493	-1.051926
crhtw2 <-						
crhtw1	.6855613	.0433113	15.83	0.000	.6006727	.7704499
BSIanx	.4837341	.0863699	5.60	0.000	.3144521	.653016
illw2	.0705143	.0522361	1.35	0.177	-.0318666	.1728951
illw1	.0780323	.0448234	1.74	0.082	-.0098199	.1658846
injselfr	.1138482	.0354498	3.21	0.001	.0443679	.1833286
_cons	-1.602967	.2338252	-6.86	0.000	-2.061256	-1.144678
crhtw3 <-						
crhtw1	-.1741514	.0492426	-3.54	0.000	-.270665	-.0776377
crhtw2	1.103442	.0396722	27.81	0.000	1.025685	1.181198
BSIanx	.0785718	.0299505	2.62	0.009	.01987	.1372736
_cons	-.2239688	.0784141	-2.86	0.004	-.3776576	-.07028
BSIanx <-						
crhtw1	1.204944	.3429866	3.51	0.000	.5327031	1.877186
crhtw3	-1.425018	.4106538	-3.47	0.001	-2.229884	-.6201513
illw2	.2188602	.0864761	2.53	0.011	.0493702	.3883501
illw3	.7442672	.1521158	4.89	0.000	.4461257	1.042409
anxagw2	.3431947	.090501	3.79	0.000	.1658161	.5205733
shhlw2	.1941757	.0653402	2.97	0.003	.0661112	.3222401
_cons	1.772993	.227741	7.79	0.000	1.326628	2.219357
illw2 <-						
crhtw1	-.1820691	.0537539	-3.39	0.001	-.2874248	-.0767134
shhlw1	.2145143	.0569403	3.77	0.000	.1029135	.3261152
illw1	.1383291	.0713122	1.94	0.052	-.0014403	.2780984
age	.2247808	.0520728	4.32	0.000	.12272	.3268417
_cons	-.7049006	.1985934	-3.55	0.000	-1.094137	-.3156647
illw3 <-						
crhtw1	-.1174367	.0475464	-2.47	0.014	-.2106258	-.0242475
illw2	.3340945	.0705854	4.73	0.000	.1957496	.4724394
age	.183714	.049617	3.70	0.000	.0864664	.2809616

_cons	-.3986177	.1939417	-2.06	0.040	-.7787363	-.018499
anxagw2 <-						
illw2	.2323704	.0662684	3.51	0.000	.1024867	.3622542
anxagw1	.5438919	.0457108	11.90	0.000	.4543004	.6334834
illw1	.1879584	.0874064	2.15	0.032	.0166449	.3592719
shhlw2	-.1069204	.0456113	-2.34	0.019	-.1963168	-.0175239
_cons	.1193243	.04545	2.63	0.009	.030244	.2084046
anxagw1 <-						
shhlw1	.1776119	.0533841	3.33	0.001	.0729811	.2822427
age	.1129765	.0480778	2.35	0.019	.0187457	.2072073
injselfr	.1826492	.04665	3.92	0.000	.091217	.2740815
fdferw1	.4185142	.0569118	7.35	0.000	.3069691	.5300594
_cons	-.5259707	.1591885	-3.30	0.001	-.8379745	-.213967
shhlw1 <-						
age	.1257461	.049049	2.56	0.010	.0296118	.2218803
fdferw1	.3837201	.053024	7.24	0.000	.279795	.4876452
_cons	.1419301	.1974941	0.72	0.472	-.2451512	.5290113
illw1 <-						
medcow1	.1876956	.070912	2.65	0.008	.0487106	.3266805
_cons	.1685525	.0333608	5.05	0.000	.1031666	.2339384
shhlw2 <-						
shhlw1	.5559778	.0479173	11.60	0.000	.4620616	.649894
injselfr	-.1037666	.0435775	-2.38	0.017	-.189177	-.0183563
fdferw1	.2057903	.0538491	3.82	0.000	.100248	.3113326
_cons	.5361939	.0726108	7.38	0.000	.3938793	.6785086
Variance						
e.crhtw1	.6231127	.0420427			.5459266	.7112119
e.crhtw2	.3493845	.0713215			.2341768	.521271
e.crhtw3	.0833578	.0244943			.0468624	.1482748
e.BSIanx	1.486496	.376958			.904293	2.443535
e.illw2	.8861334	.0271649			.8344591	.9410076
e.illw3	.8266795	.0536829			.7278835	.9388851
e.anxagw2	.6055802	.0435718			.5259293	.6972942
e.anxagw1	.5847358	.0444861			.5037338	.6787632
e.shhlw1	.8198797	.042414			.7408253	.90737
e.illw1	.9647704	.0266197			.9139823	1.018381
e.shhlw2	.5794928	.0449071			.4978347	.674545

```
38 . estat stable, detail // moduli must be within unit circle
```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.4359886 + .8259688i	.933976
.4359886 - .8259688i	.933976
-.8719773	.871977
7.300e-07 + 1.264e-06i	1.5e-06
7.300e-07 - 1.264e-06i	1.5e-06
-1.460e-06	1.5e-06
1.388e-17	1.4e-17
0	0
0	0
0	0
0	0

stability index = .9339757

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

		observed					
	Beta	crhtw1	crhtw2	crhtw3	BSIanx	illw2	
illw3	anxagw2	anxagw1	shhlw1	illw1	shhlw2		
observed							
		crhtw1	crhtw2	crhtw3	BSIanx	illw2	
0	0	0	.0067949	-.282427	0		
0	0	.6691433	0	0	.1594137	.1088884	
0	0	0	0	.19639	0		
0	0	-.1692308	1.098573	0	.025779	0	
0	0	0	0	0	0		
18072	.0532932	3.56879	0	-4.343319	0	1.02554	2.
0	0	0	0	0	.0135813		
0	0	-.1150813	0	0	0	0	
0	0	0	.0035668	.2254517	0		
0	0	-.1187099	0	0	0	.5342986	
0	0	0	0	0	0		
0	0	0	0	0	0	7.011894	
0	0	.2572176	0	9.243925	-.0481587		
	anxagw1	0	0	0	0	0	

```

>      0      0      0      .1884354      0      0
>      shhlw1 |      0      0      0      0      0
>      0      0      0      0      0      0
>      illw1 |      0      0      0      0      0
>      0      0      0      0      0      0
>      shhlw2 |      0      0      0      0      0
>      0      0      0      .6193291      0      0

```

```

>

```

39 . estat gof

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

40 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	338	.	-12440.2	63	25006.39	25247.24

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

41 . estat residuals

Residuals of observed variables

Mean residuals

```

>      |      crhtw1      crhtw2      crhtw3      BSIanx      illw2
> illw3  anxagw2 |      anxagw1      shhlw1      illw1      shhlw2      age      m
> edcow1 injselfr |      fdferw1
>
>
>
>      raw |      -0.000      0.000      -0.000      0.000      0.000
> 0.000  0.000 |      -0.000      -0.000      0.000      -0.000      0.000
> 0.000  0.000 |      0.000
>
>
>

```

Covariance residuals

```

>      | crhtw1 crhtw2 crhtw3 BSIanx illw2
> illw3 anxagw2 anxagw1 shhlw1 illw1 shhlw2 age m
> edcow1 injselfr fdferw1
+-----+-----+-----+-----+-----+-----+-----+
>
> crhtw1 | -0.010
>
> crhtw2 | 0.000 0.017
>
> crhtw3 | 0.002 0.020 0.023
>
> BSIanx | 0.023 0.053 0.055 0.054
>
> illw2 | 0.003 0.007 0.001 0.008 0.002
>
> illw3 | 0.002 0.038 0.036 -0.015 0.002
> 0.001
>
> anxagw2 | 1.594 1.574 1.450 2.376 -0.070
> 1.288 2.632
>
> anxagw1 | 0.455 0.926 1.898 5.577 -0.437
> 2.628 5.408 1.070
>
> shhlw1 | -0.191 0.244 0.497 5.445 0.138
> 0.965 6.510 2.840 -0.000
>
> illw1 | 0.016 0.023 0.018 0.058 0.003
> 0.031 0.229 0.925 0.514 0.000
>
> shhlw2 | -1.748 -0.902 -0.855 8.086 -0.027
> 4.698 7.894 7.386 -1.694 0.658 -2.098
>
> age | -0.083 0.092 0.102 0.215 0.076
> 0.050 10.619 0.000 0.000 0.293 32.569 0.000
>
> medcow1 | -0.012 0.025 0.022 0.339 0.068 -
> 0.035 2.133 -5.336 -1.724 -0.000 -7.511 0.000
> 0.000
> injselfr | -0.002 0.015 0.031 0.080 0.012
> 0.064 0.281 0.039 0.207 0.012 0.128 0.000
> 0.000 0.000
> fdferw1 | -0.253 1.218 1.521 13.242 2.041

```

```

> 2.991    26.824    0.000    0.000    0.897    0.000    0.000
> 0.000    0.000    0.000

```

```

> _____
> _____
> _____

```

```

42 . estat framework
(model contains no latent variables)

```

Endogenous variables on endogenous variables

```

>      | observed
>      |
>      | Beta | crhtw1  crhtw2  crhtw3  BSIanx  illw2
> illw3 | anxagw2 | anxagw1  shhlw1  illw1  shhlw2
> _____
>      |
>      | observed |
>      |
>      | crhtw1 | 0 0 0 0 0
> 0 | 0 0 .0067949 -.282427 0
>      | crhtw2 | .6691433 0 0 .1594137 .1088884
> 0 | 0 0 0 .19639 0
>      | crhtw3 | -.1692308 1.098573 0 .025779 0
> 0 | 0 0 0 0 0
>      | BSIanx | 3.56879 0 -4.343319 0 1.02554 2.
> 18072 | .0532932 0 0 0 .0135813
>      | illw2 | -.1150813 0 0 0 0
> 0 | 0 0 .0035668 .2254517 0
>      | illw3 | -.1187099 0 0 0 0 .5342986
> 0 | 0 0 0 0 0
>      | anxagw2 | 0 0 0 0 7.011894
> 0 | 0 .2572176 0 9.243925 -.0481587
>      | anxagw1 | 0 0 0 0 0
> 0 | 0 0 .1884354 0 0
>      | shhlw1 | 0 0 0 0 0
> 0 | 0 0 0 0 0
>      | illw1 | 0 0 0 0 0
> 0 | 0 0 0 0 0
>      | shhlw2 | 0 0 0 0 0
> 0 | 0 0 .6193291 0 0
> _____
> _____

```

Exogenous variables on endogenous variables

Gamma	observed			
	age	medcow1	injselfr	fdferw1
observed				
crhtw1	.0105892	.0774014	.4234589	.0047849
crhtw2	0	0	.2071438	0
crhtw3	0	0	0	0
BSIanx	0	0	0	0
illw2	.0108703	0	0	0
illw3	.0142082	0	0	0
anxagw2	0	0	0	0
anxagw1	.3486075	0	13.73173	.4031554
shhlw1	.3657232	0	0	.3484067
illw1	0	.0306126	0	0
shhlw2	0	0	-8.191038	.2081426

Covariances of error variables

		observed					
>	Psi	e.crhtw1	e.crhtw2	e.crhtw3	e.BSIanx	e.illw2	e.
> illw3	e.anxagw2	e.anxagw1	e.shhlw1	e.illw1	e.shhlw2		
>	observed						
>	e.crhtw1	.5412419					
>	e.crhtw2	0	.2891173				
>	e.crhtw3	0	0	.0683717			
>	e.BSIanx	0	0	0	11.32652		
>	e.illw2	0	0	0	0	.3075108	
>	e.illw3	0	0	0	0	0	.73
> 37159	e.anxagw2	0	0	0	0	0	
> 0	191.356	e.anxagw1	0	0	0	0	
> 0	0	826.1404	e.shhlw1	0	0	0	
>	0	0	0	1029.114	0	0	
>	0	0	0	0	0	0	
>	0	0	0	.126039	0	0	
>	0	0	0	0	0	0	
>	0	0	0	0	902.5881		

Intercepts of endogenous variables

		observed					
	alpha	crhtw1	crhtw2	crhtw3	BSIanx	illw2	
	anxagw2	anxagw1	shhlw1	illw1	shhlw2		
	_cons	-1.318965	-1.458175	-.2028395	4.894105	-.415249	-.37
> 55363	2.121114	-19.77009	5.028416	.0609222	21.16132		

Covariances of exogenous variables

	Phi	observed			
		age	medcow1	injselfr	fdferw1
observed					
age		148.3874			
medcow1		3.620654	4.911208		
injselfr		2.10734	.1153496	.249965	
fdferw1		84.06313	6.120076	6.637828	1522.543

Means of exogenous variables

	kappa	observed			
		age	medcow1	injselfr	fdferw1
	mean	49.10947	1.005917	.5059172	32.2071

43 . estat teffects

Direct effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
shhlw1	.0067949	.0013095	5.19	0.000	.0042284	.0093615
illw1	-.282427	.1399263	-2.02	0.044	-.5566774	-.0081766
age	.0105892	.0039758	2.66	0.008	.0027968	.0183817
medcow1	.0774014	.0174071	4.45	0.000	.0432842	.1115186
injselfr	.4234589	.0928434	4.56	0.000	.2414893	.6054286
fdferw1	.0047849	.0012394	3.86	0.000	.0023556	.0072141
crhtw2 <-						
crhtw1	.6691433	.0436783	15.32	0.000	.5835354	.7547511
crhtw2	0	(no path)				
crhtw3	0	(no path)				
BSIanx	.1594137	.0287199	5.55	0.000	.1031238	.2157036
illw2	.1088884	.0687363	1.58	0.113	-.0258323	.2436091
illw3	0	(no path)				
anxagw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
illw1	.19639	.1131396	1.74	0.083	-.0253595	.4181395
shhlw2	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	.2071438	.06427	3.22	0.001	.081177	.3331106
fdferw1	0	(no path)				
crhtw3 <-						
crhtw1	-.1692308	.0453624	-3.73	0.000	-.2581394	-.0803223
crhtw2	1.098573	.0411083	26.72	0.000	1.018003	1.179144
crhtw3	0	(no path)				
BSIanx	.025779	.0087203	2.96	0.003	.0086874	.0428705
illw2	0	(no path)				
illw3	0	(no path)				
anxagw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
illw1	0	(no path)				
shhlw2	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				

BSIanx <-						
crhtw1	3.56879	1.022299	3.49	0.000	1.56512	5.57246
crhtw2	0	(no path)				
crhtw3	-4.343319	1.294891	-3.35	0.001	-6.881258	-1.805379
BSIanx	0	(no path)				
illw2	1.02554	.4156016	2.47	0.014	.2109755	1.840104
illw3	2.18072	.4547013	4.80	0.000	1.289521	3.071918
anxagw2	.0532932	.0148146	3.60	0.000	.0242571	.0823293
anxagw1	0	(no path)				
shhlw1	0	(no path)				
illw1	0	(no path)				
shhlw2	.0135813	.0045926	2.96	0.003	.0045799	.0225826
age	0	(no path)				
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
illw2 <-						
crhtw1	-.1150813	.0388386	-2.96	0.003	-.1912035	-.038959
shhlw1	.0035668	.0010324	3.45	0.001	.0015434	.0055903
illw1	.2254517	.110439	2.04	0.041	.0089953	.4419082
age	.0108703	.0026663	4.08	0.000	.0056445	.0160961
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
illw3 <-						
crhtw1	-.1187099	.0548097	-2.17	0.030	-.2261349	-.0112848
illw2	.5342986	.1160697	4.60	0.000	.3068061	.7617911
shhlw1	0	(no path)				
illw1	0	(no path)				
age	.0142082	.0044506	3.19	0.001	.0054852	.0229312
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
anxagw2 <-						
crhtw1	0	(no path)				
illw2	7.011894	1.915005	3.66	0.000	3.258553	10.76524
anxagw1	.2572176	.0371254	6.93	0.000	.1844531	.329982
shhlw1	0	(no path)				
illw1	9.243925	3.744652	2.47	0.014	1.904541	16.58331
shhlw2	-.0481587	.02348	-2.05	0.040	-.0941787	-.0021387
age	0	(no path)				
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
anxagw1 <-						

shhlw1	.1884354	.0568305	3.32	0.001	.0770495	.2998212
age	.3486075	.1502479	2.32	0.020	.054127	.643088
injselfr	13.73173	3.543758	3.87	0.000	6.786093	20.67737
fdferw1	.4031554	.056886	7.09	0.000	.291661	.5146499
shhlw1 <-						
age	.3657232	.142582	2.57	0.010	.0862677	.6451788
fdferw1	.3484067	.0507962	6.86	0.000	.2488479	.4479654
illw1 <-						
medcow1	.0306126	.0123186	2.49	0.013	.0064686	.0547566
shhlw2 <-						
shhlw1	.6193291	.0533545	11.61	0.000	.5147561	.7239021
age	0	(no path)				
injselfr	-8.191038	3.463733	-2.36	0.018	-14.97983	-1.402247
fdferw1	.2081426	.0549006	3.79	0.000	.1005393	.3157459

Indirect effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
shhlw1	0	(no path)				
illw1	0	(no path)				
age	.0024851	.0011034	2.25	0.024	.0003224	.0046477
medcow1	-.0086458	.0053382	-1.62	0.105	-.0191084	.0018168
injselfr	0	(no path)				
fdferw1	.0023674	.000572	4.14	0.000	.0012463	.0034885
crhtw2 <-						
crhtw1	.0399797	.097433	0.41	0.682	-.1509854	.2309448
crhtw2	-.4061917	.0151996	-26.72	0.000	-.4359823	-.376401
crhtw3	-.3697447	.1102335	-3.35	0.001	-.5857983	-.1536911
BSIanx	-.0742841	.0113309	-6.56	0.000	-.0964922	-.052076
illw2	.174075	.0574773	3.03	0.002	.0614216	.2867284
illw3	.1856436	.0387085	4.80	0.000	.1097764	.2615109
anxagw2	.0045368	.0012612	3.60	0.000	.002065	.0070087
anxagw1	.001167	.0001684	6.93	0.000	.0008368	.0014971
shhlw1	.0066283	.0009645	6.87	0.000	.004738	.0085187
illw1	-.1743148	.144276	-1.21	0.227	-.4570905	.1084609
shhlw2	.0009377	.0004034	2.32	0.020	.0001471	.0017283
age	.0160536	.0029852	5.38	0.000	.0102027	.0219045
medcow1	.0555629	.0132813	4.18	0.000	.0295321	.0815938

injselfr	.224488	.0772173	2.91	0.004	.0731449	.3758312
fdferw1	.006368	.0009175	6.94	0.000	.0045698	.0081663
crhtw3 <-						
crhtw1	.7875152	.1179212	6.68	0.000	.556394	1.018636
crhtw2	-.5119171	.0191558	-26.72	0.000	-.5494617	-.4743724
crhtw3	-.4659835	.1389255	-3.35	0.001	-.7382725	-.1936945
BSIanx	.0815085	.0182574	4.46	0.000	.0457246	.1172923
illw2	.3390059	.0566719	5.98	0.000	.227931	.4500809
illw3	.2339638	.0487837	4.80	0.000	.1383494	.3295782
anxagw2	.0057177	.0015894	3.60	0.000	.0026025	.0088329
anxagw1	.0014707	.0002123	6.93	0.000	.0010546	.0018867
shhlw1	.0064194	.0008716	7.37	0.000	.0047112	.0081276
illw1	.0698766	.0921015	0.76	0.448	-.1106391	.2503923
shhlw2	.0011817	.0005084	2.32	0.020	.0001853	.0021781
age	.0164169	.0028008	5.86	0.000	.0109274	.0219064
medcow1	.0499952	.0117711	4.25	0.000	.0269242	.0730662
injselfr	.3938557	.0724726	5.43	0.000	.251812	.5358994
fdferw1	.0060338	.0008541	7.06	0.000	.0043599	.0077078
BSIanx <-						
crhtw1	-3.239391	.4647973	-6.97	0.000	-4.150377	-2.328405
crhtw2	-2.548035	.0953468	-26.72	0.000	-2.734912	-2.361159
crhtw3	2.023915	.6033978	3.35	0.001	.8412768	3.206553
BSIanx	-.4659835	.0710784	-6.56	0.000	-.6052945	-.3266724
illw2	.0664309	.2834855	0.23	0.815	-.4891905	.6220523
illw3	-1.016179	.2118833	-4.80	0.000	-1.431463	-.6008957
anxagw2	-.0248337	.0069034	-3.60	0.000	-.0383641	-.0113034
anxagw1	.0073203	.0010566	6.93	0.000	.0052494	.0093911
shhlw1	.0111554	.0012224	9.13	0.000	.0087595	.0135513
illw1	-.0841761	.3858648	-0.22	0.827	-.8404572	.672105
shhlw2	-.0076992	.0022533	-3.42	0.001	-.0121156	-.0032828
age	.0385358	.0068533	5.62	0.000	.0251036	.0519681
medcow1	.0229191	.0156133	1.47	0.142	-.0076824	.0535206
injselfr	-.335983	.2041531	-1.65	0.100	-.7361156	.0641497
fdferw1	.0096383	.0018905	5.10	0.000	.005933	.0133435
illw2 <-						
crhtw1	0	(no path)				
shhlw1	-.000782	.0001507	-5.19	0.000	-.0010773	-.0004866
illw1	.0325021	.0161029	2.02	0.044	.000941	.0640631
age	-.0002001	.0008014	-0.25	0.803	-.0017708	.0013705
medcow1	-.0010108	.0062401	-0.16	0.871	-.0132412	.0112196
injselfr	-.0487322	.0193816	-2.51	0.012	-.0867193	-.010745
fdferw1	.0004196	.0003902	1.08	0.282	-.0003451	.0011843
illw3 <-						
crhtw1	-.0614878	.0207514	-2.96	0.003	-.1021598	-.0208157
illw2	0	(no path)				

shhlw1	.0006813	.0006059	1.12	0.261	-.0005063	.0018689
illw1	.1713512	.0603452	2.84	0.005	.0530768	.2896257
age	.004149	.0022992	1.80	0.071	-.0003574	.0086554
medcow1	-.008702	.0064975	-1.34	0.180	-.0214369	.0040329
injselfr	-.0763063	.0303157	-2.52	0.012	-.135724	-.0168885
fdferw1	-.0006248	.0004661	-1.34	0.180	-.0015383	.0002886
anxagw2 <-						
crhtw1	-.8069376	.2723322	-2.96	0.003	-1.340699	-.2731762
illw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.0381698	.0156472	2.44	0.015	.0075018	.0688378
illw1	1.808745	.7644897	2.37	0.018	.3103724	3.307117
shhlw2	0	(no path)				
age	.1713041	.0465999	3.68	0.000	.07997	.2626382
medcow1	.2758929	.1933653	1.43	0.154	-.1030961	.654882
injselfr	3.584808	1.233872	2.91	0.004	1.166463	6.003153
fdferw1	.1031123	.0180216	5.72	0.000	.0677905	.1384341
anxagw1 <-						
shhlw1	0	(no path)				
age	.0689152	.0363107	1.90	0.058	-.0022524	.1400828
injselfr	0	(no path)				
fdferw1	.0656521	.0221217	2.97	0.003	.0222943	.10901
shhlw1 <-						
age	0	(no path)				
fdferw1	0	(no path)				
illw1 <-						
medcow1	0	(no path)				
shhlw2 <-						
shhlw1	0	(no path)				
age	.2265031	.0900761	2.51	0.012	.0499571	.403049
injselfr	0	(no path)				
fdferw1	.2157784	.036397	5.93	0.000	.1444416	.2871152

Total effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
shhlw1	.0067949	.0013095	5.19	0.000	.0042284	.0093615
illw1	-.282427	.1399263	-2.02	0.044	-.5566774	-.0081766
age	.0130743	.0039203	3.34	0.001	.0053907	.0207579
medcow1	.0687556	.0184006	3.74	0.000	.0326911	.1048201
injselfr	.4234589	.0928434	4.56	0.000	.2414893	.6054286
fdferw1	.0071523	.0011476	6.23	0.000	.0049029	.0094016
crhtw2 <-						
crhtw1	.709123	.0944573	7.51	0.000	.52399	.8942559
crhtw2	-.4061917	.0151996	-26.72	0.000	-.4359823	-.376401
crhtw3	-.3697447	.1102335	-3.35	0.001	-.5857983	-.1536911
BSIanx	.0851295	.0181024	4.70	0.000	.0496496	.1206095
illw2	.2829634	.0493931	5.73	0.000	.1861548	.379772
illw3	.1856436	.0387085	4.80	0.000	.1097764	.2615109
anxagw2	.0045368	.0012612	3.60	0.000	.002065	.0070087
anxagw1	.001167	.0001684	6.93	0.000	.0008368	.0014971
shhlw1	.0066283	.0009645	6.87	0.000	.004738	.0085187
illw1	.0220752	.09704	0.23	0.820	-.1681197	.21227
shhlw2	.0009377	.0004034	2.32	0.020	.0001471	.0017283
age	.0160536	.0029852	5.38	0.000	.0102027	.0219045
medcow1	.0555629	.0132813	4.18	0.000	.0295321	.0815938
injselfr	.4316318	.079266	5.45	0.000	.2762734	.5869903
fdferw1	.006368	.0009175	6.94	0.000	.0045698	.0081663
crhtw3 <-						
crhtw1	.6182844	.1078154	5.73	0.000	.4069701	.8295987
crhtw2	.5866564	.0219525	26.72	0.000	.5436302	.6296825
crhtw3	-.4659835	.1389255	-3.35	0.001	-.7382725	-.1936945
BSIanx	.1072874	.016365	6.56	0.000	.0752126	.1393622
illw2	.3390059	.0566719	5.98	0.000	.227931	.4500809
illw3	.2339638	.0487837	4.80	0.000	.1383494	.3295782
anxagw2	.0057177	.0015894	3.60	0.000	.0026025	.0088329
anxagw1	.0014707	.0002123	6.93	0.000	.0010546	.0018867
shhlw1	.0064194	.0008716	7.37	0.000	.0047112	.0081276
illw1	.0698766	.0921015	0.76	0.448	-.1106391	.2503923
shhlw2	.0011817	.0005084	2.32	0.020	.0001853	.0021781
age	.0164169	.0028008	5.86	0.000	.0109274	.0219064
medcow1	.0499952	.0117711	4.25	0.000	.0269242	.0730662
injselfr	.3938557	.0724726	5.43	0.000	.251812	.5358994
fdferw1	.0060338	.0008541	7.06	0.000	.0043599	.0077078

BSIanx <-						
crhtw1	.3293989	.6045151	0.54	0.586	-.8554289	1.514227
crhtw2	-2.548035	.0953468	-26.72	0.000	-2.734912	-2.361159
crhtw3	-2.319404	.6914932	-3.35	0.001	-3.674706	-.9641022
BSIanx	-.4659835	.0710784	-6.56	0.000	-.6052945	-.3266724
illw2	1.091971	.3605542	3.03	0.002	.3852973	1.798644
illw3	1.16454	.242818	4.80	0.000	.6886257	1.640455
anxagw2	.0284594	.0079112	3.60	0.000	.0129537	.0439652
anxagw1	.0073203	.0010566	6.93	0.000	.0052494	.0093911
shhlw1	.0111554	.0012224	9.13	0.000	.0087595	.0135513
illw1	-.0841761	.3858648	-0.22	0.827	-.8404572	.672105
shhlw2	.0058821	.0025304	2.32	0.020	.0009225	.0108416
age	.0385358	.0068533	5.62	0.000	.0251036	.0519681
medcow1	.0229191	.0156133	1.47	0.142	-.0076824	.0535206
injselfr	-.335983	.2041531	-1.65	0.100	-.7361156	.0641497
fdferw1	.0096383	.0018905	5.10	0.000	.005933	.0133435
illw2 <-						
crhtw1	-.1150813	.0388386	-2.96	0.003	-.1912035	-.038959
shhlw1	.0027848	.0010475	2.66	0.008	.0007319	.0048378
illw1	.2579538	.1090276	2.37	0.018	.0442637	.4716439
age	.0106702	.0025968	4.11	0.000	.0055805	.0157598
medcow1	-.0010108	.0062401	-0.16	0.871	-.0132412	.0112196
injselfr	-.0487322	.0193816	-2.51	0.012	-.0867193	-.010745
fdferw1	.0004196	.0003902	1.08	0.282	-.0003451	.0011843
illw3 <-						
crhtw1	-.1801976	.0602669	-2.99	0.003	-.2983186	-.0620766
illw2	.5342986	.1160697	4.60	0.000	.3068061	.7617911
shhlw1	.0006813	.0006059	1.12	0.261	-.0005063	.0018689
illw1	.1713512	.0603452	2.84	0.005	.0530768	.2896257
age	.0183572	.0045738	4.01	0.000	.0093927	.0273217
medcow1	-.008702	.0064975	-1.34	0.180	-.0214369	.0040329
injselfr	-.0763063	.0303157	-2.52	0.012	-.135724	-.0168885
fdferw1	-.0006248	.0004661	-1.34	0.180	-.0015383	.0002886
anxagw2 <-						
crhtw1	-.8069376	.2723322	-2.96	0.003	-1.340699	-.2731762
illw2	7.011894	1.915005	3.66	0.000	3.258553	10.76524
anxagw1	.2572176	.0371254	6.93	0.000	.1844531	.329982
shhlw1	.0381698	.0156472	2.44	0.015	.0075018	.0688378
illw1	11.05267	3.776674	2.93	0.003	3.650525	18.45481
shhlw2	-.0481587	.02348	-2.05	0.040	-.0941787	-.0021387
age	.1713041	.0465999	3.68	0.000	.07997	.2626382
medcow1	.2758929	.1933653	1.43	0.154	-.1030961	.654882
injselfr	3.584808	1.233872	2.91	0.004	1.166463	6.003153
fdferw1	.1031123	.0180216	5.72	0.000	.0677905	.1384341
anxagw1 <-						

shhlw1	.1884354	.0568305	3.32	0.001	.0770495	.2998212
age	.4175227	.147858	2.82	0.005	.1277264	.707319
injselfr	13.73173	3.543758	3.87	0.000	6.786093	20.67737
fdferw1	.4688076	.0505676	9.27	0.000	.3696968	.5679183
shhlw1 <-						
age	.3657232	.142582	2.57	0.010	.0862677	.6451788
fdferw1	.3484067	.0507962	6.86	0.000	.2488479	.4479654
illw1 <-						
medcow1	.0306126	.0123186	2.49	0.013	.0064686	.0547566
shhlw2 <-						
shhlw1	.6193291	.0533545	11.61	0.000	.5147561	.7239021
age	.2265031	.0900761	2.51	0.012	.0499571	.403049
injselfr	-8.191038	3.463733	-2.36	0.018	-14.97983	-1.402247
fdferw1	.423921	.0517988	8.18	0.000	.3223972	.5254447

```

44 .
45 .
46 .
47 .
48 . title "nonrobust version of complex Female CPR female anxiety path model"

```

```

*****
> *
*****
> *
*****
> *
*****
> *
***** nonrobust version of complex Female CPR female anxiety path model *****
> *
*****
> *
*****
> *
*****
31 Jul 2012    22:42:27    *****
> *
*****
> *
*****

```

```

49 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/
    > BSIanxPathModel/CPRanxXp2fem.stsem"
50 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
    > athModel/CPRanxXp2fem.stsem", replace
51 . title4 "Nonrobust version of complex female anxiety path model"

```

Nonrobust version of complex female anxiety path model

```

52 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> illw2) ///
    > (crhtw1 -> illw3) (crhtw2 -> crhtw3) (crhtw2 -> illw2) ///
    > (crhtw3 -> BSIanx) (crhtw3 -> illw3) (BSIanx -> crhtw2) ///
    > (BSIanx -> crhtw3) (BSIanx -> illw1) (anxagw2 -> crhtw3) ///
    > (anxagw2 -> BSIanx) (anxagw2 -> shhlw2) (anxagw1 -> crhtw3) ///
    > (anxagw1 -> BSIanx) (anxagw1 -> anxagw2) (age -> crhtw1) ///
    > (age -> anxagw1) (age -> illw2) (age -> illw3) (age -> shhlw1) ///
    > (illw1 -> crhtw1) (illw1 -> crhtw2) (illw1 -> anxagw1) ///
    > (illw2 -> BSIanx) (illw2 -> anxagw2) (illw2 -> illw3) ///
    > (illw3 -> BSIanx) (shhlw1 -> crhtw1) (shhlw1 -> illw2) ///
    > (shhlw1 -> shhlw2) (medcow1 -> crhtw1) (medcow1 -> illw1) ///
    > (injselfr -> crhtw1) (injselfr -> crhtw2) (injselfr -> crhtw3) ///
    > (injselfr -> BSIanx) (injselfr -> anxagw1) (injselfr -> shhlw2) ///
    > (shhlw2 -> BSIanx) (shhlw2 -> anxagw2) (fdferw1 -> crhtw2) ///
    > (fdferw1 -> anxagw1) (fdferw1 -> illw1) (fdferw1 -> shhlw1) ///
    > if gender==2, nocapslatent nolog
    (1 observations with missing values excluded;
    specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 illw2 illw3 BSIanx illw1 anxagw2 shhlw2
anxagw1 shhlw1**

Exogenous variables

Observed: **age medcow1 injselfr fdferw1**

Structural equation model	Number of obs	=	362
Estimation method	=	ml	
Log likelihood	=	-14228.576	

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
illw1	-.4230516	.0912611	-4.64	0.000	-.6019202	-.2441831
shhlw1	.0034097	.0012706	2.68	0.007	.0009194	.0059001
age	.01434	.0037514	3.82	0.000	.0069873	.0216927
medcow1	.0565672	.0107582	5.26	0.000	.0354815	.0776528
injselfr	.5227741	.0958765	5.45	0.000	.3348597	.7106886
_cons	-1.142329	.1887244	-6.05	0.000	-1.512222	-.7724358
crhtw2 <-						
crhtw1	.5727314	.033824	16.93	0.000	.5064376	.6390253
BSIanx	.0419468	.0134784	3.11	0.002	.0155297	.0683639
illw1	.1766982	.0612721	2.88	0.004	.0566071	.2967892
injselfr	.4333504	.0713207	6.08	0.000	.2935643	.5731365
fdferw1	.0025355	.0007945	3.19	0.001	.0009784	.0040927
_cons	-.7056334	.112258	-6.29	0.000	-.925655	-.4856117
crhtw3 <-						
crhtw1	-.0898639	.0219937	-4.09	0.000	-.1329708	-.0467571
crhtw2	.9919706	.0258565	38.36	0.000	.9412928	1.042648
BSIanx	.0105544	.0052142	2.02	0.043	.0003347	.0207741
anxagw2	.0027372	.0007386	3.71	0.000	.0012895	.004185
anxagw1	-.0019059	.0004794	-3.98	0.000	-.0028455	-.0009663
injselfr	.1410717	.036275	3.89	0.000	.069974	.2121693
_cons	-.1670712	.0476703	-3.50	0.000	-.2605033	-.0736391
illw2 <-						
crhtw1	-.3535116	.0644078	-5.49	0.000	-.4797485	-.2272747
crhtw2	.3756829	.0731283	5.14	0.000	.232354	.5190117
shhlw1	.003699	.0012786	2.89	0.004	.001193	.006205
age	.0107816	.0037698	2.86	0.004	.003393	.0181702
_cons	-.2761528	.1929309	-1.43	0.152	-.6542905	.1019849
illw3 <-						
crhtw1	-.737797	.0691634	-10.67	0.000	-.8733548	-.6022392
crhtw3	.5743192	.0760482	7.55	0.000	.4252675	.7233709
illw2	.1209159	.0613788	1.97	0.049	.0006156	.2412162
age	.0186095	.0044632	4.17	0.000	.0098617	.0273573
_cons	-.2740257	.2247462	-1.22	0.223	-.7145203	.1664688
BSIanx <-						
crhtw3	-.7877405	.3716985	-2.12	0.034	-1.516256	-.0592249
illw2	.8831681	.2110875	4.18	0.000	.4694441	1.296892
illw3	.4492664	.1640361	2.74	0.006	.1277615	.7707713
anxagw2	.0221537	.0089531	2.47	0.013	.0046059	.0397015

shhlw2	.0123384	.004548	2.71	0.007	.0034245	.0212524
anxagw1	.0195129	.0056116	3.48	0.001	.0085144	.0305114
injselfr	1.614753	.5261546	3.07	0.002	.583509	2.645997
_cons	6.006763	.4464523	13.45	0.000	5.131733	6.881794
illw1 <-						
BSIanx	.032428	.0071287	4.55	0.000	.0184561	.0464
medcow1	.027124	.0058792	4.61	0.000	.015601	.0386469
fdferw1	-.0015187	.0006535	-2.32	0.020	-.0027996	-.0002378
_cons	-.1271712	.0703821	-1.81	0.071	-.2651175	.0107752
anxagw2 <-						
illw2	6.996976	1.191456	5.87	0.000	4.661765	9.332186
shhlw2	-.1423695	.0404666	-3.52	0.000	-.2216826	-.0630564
anxagw1	.3056647	.0305344	10.01	0.000	.2458185	.365511
_cons	9.093708	2.142823	4.24	0.000	4.893853	13.29356
shhlw2 <-						
anxagw2	.331152	.1210079	2.74	0.006	.0939808	.5683231
shhlw1	.6087452	.0526495	11.56	0.000	.505554	.7119363
injselfr	-7.445438	3.932484	-1.89	0.058	-15.15297	.2620893
_cons	30.51271	3.6061	8.46	0.000	23.44489	37.58054
anxagw1 <-						
illw1	10.76641	3.660546	2.94	0.003	3.591868	17.94094
age	.3446171	.1488636	2.31	0.021	.0528498	.6363844
injselfr	10.48057	3.817959	2.75	0.006	2.997502	17.96363
fdferw1	.2281941	.0459929	4.96	0.000	.1380497	.3183385
_cons	-12.57693	7.507958	-1.68	0.094	-27.29226	2.138396
shhlw1 <-						
age	.321681	.1459898	2.20	0.028	.0355463	.6078157
fdferw1	.2281068	.0456293	5.00	0.000	.1386751	.3175386
_cons	10.65525	7.500176	1.42	0.155	-4.044824	25.35533
Variance						
e.crhtw1	.6536773	.0486727			.564915	.7563863
e.crhtw2	.294639	.0219175			.2546663	.3408859
e.crhtw3	.072712	.0054188			.0628307	.0841474
e.illw2	.647175	.0483787			.5589736	.749294
e.illw3	.8949426	.06661			.7734652	1.035499
e.BSIanx	9.605829	.8212327			8.12387	11.35813
e.illw1	.2119491	.0158568			.1830415	.2454221
e.anxagw2	371.7592	29.19632			318.722	433.622
e.shhlw2	1135.957	92.10404			969.0496	1331.612
e.anxagw1	1038.28	77.48293			897	1201.812
e.shhlw1	1057.538	78.60617			914.1693	1223.391

LR test of model vs. saturated: $\chi^2(53) = 64.85$, Prob > $\chi^2 = 0.1274$

```
53 . sem,standardize
```

```
Structural equation model      Number of obs      =      362
Estimation method   = ml
Log likelihood      = -14228.576
```

	OIM					
Standardized	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
illw1	-.221697	.0466776	-4.75	0.000	-.3131834	-.1302105
shhlw1	.1221161	.0453513	2.69	0.007	.0332292	.211003
age	.1785845	.0455463	3.92	0.000	.0893154	.2678536
medcow1	.2473973	.0452931	5.46	0.000	.1586245	.3361701
injselfr	.2552249	.0447305	5.71	0.000	.1675548	.342895
_cons	-1.203565	.185425	-6.49	0.000	-1.566992	-.8401391
crhtw2 <-						
crhtw1	.6268433	.0332358	18.86	0.000	.5617023	.6919842
BSIanx	.1746124	.0566495	3.08	0.002	.0635813	.2856435
illw1	.1013459	.0352134	2.88	0.004	.032329	.1703629
injselfr	.231556	.0371205	6.24	0.000	.1588011	.3043109
fdferw1	.1105724	.0344648	3.21	0.001	.0430227	.1781221
_cons	-.8137025	.1282641	-6.34	0.000	-1.065096	-.5623094
crhtw3 <-						
crhtw1	-.096319	.0310823	-3.10	0.002	-.1572392	-.0353987
crhtw2	.9714429	.0208783	46.53	0.000	.9305222	1.012364
BSIanx	.0430257	.0239354	1.80	0.072	-.0038868	.0899381
anxagw2	.0701443	.0194481	3.61	0.000	.0320267	.1082618
anxagw1	-.0756462	.0190467	-3.97	0.000	-.1129771	-.0383153
injselfr	.0738202	.0190408	3.88	0.000	.0365009	.1111395
_cons	-.1886717	.0542507	-3.48	0.001	-.2950011	-.0823423
illw2 <-						
crhtw1	-.380108	.0677753	-5.61	0.000	-.5129452	-.2472709
crhtw2	.3690768	.0706466	5.22	0.000	.230612	.5075417
shhlw1	.1424431	.0488101	2.92	0.004	.0467771	.238109
age	.1443711	.04989	2.89	0.004	.0465886	.2421537
_cons	-.3128466	.216461	-1.45	0.148	-.7371024	.1114092
illw3 <-						
crhtw1	-.6055994	.0522881	-11.58	0.000	-.7080822	-.5031167
crhtw3	.4398205	.0568468	7.74	0.000	.3284028	.5512382
illw2	.0923057	.0468432	1.97	0.049	.0004948	.1841167
age	.1902296	.0448749	4.24	0.000	.1022765	.2781827

_cons	-.2369837	.1928701	-1.23	0.219	-.6150022	.1410348
BSIanx <-						
crhtw3	-.1932362	.0902717	-2.14	0.032	-.3701654	-.016307
illw2	.2159592	.0512171	4.22	0.000	.1155755	.3163429
illw3	.1439087	.0523774	2.75	0.006	.0412509	.2465665
anxagw2	.1392613	.0560312	2.49	0.013	.0294423	.2490804
shhlw2	.1325013	.0487805	2.72	0.007	.0368933	.2281094
anxagw1	.1899854	.0544087	3.49	0.000	.0833463	.2966245
injselfr	.2072749	.0668224	3.10	0.002	.0763055	.3382444
_cons	1.663991	.1539683	10.81	0.000	1.362218	1.965763
illw1 <-						
BSIanx	.2353544	.0505598	4.65	0.000	.136259	.3344497
medcow1	.2263691	.0471776	4.80	0.000	.1339027	.3188354
fdferw1	-.1154707	.0491644	-2.35	0.019	-.2118311	-.0191103
_cons	-.2556824	.1391395	-1.84	0.066	-.5283907	.017026
anxagw2 <-						
illw2	.2721789	.0453762	6.00	0.000	.1832432	.3611146
shhlw2	-.2432163	.0670717	-3.63	0.000	-.3746744	-.1117582
anxagw1	.4734346	.0426366	11.10	0.000	.3898684	.5570007
_cons	.400744	.0962549	4.16	0.000	.2120879	.5894001
shhlw2 <-						
anxagw2	.1938436	.0713228	2.72	0.007	.0540535	.3336338
shhlw1	.5337743	.0396337	13.47	0.000	.4560937	.6114549
injselfr	-.0889961	.0468458	-1.90	0.057	-.1808121	.00282
_cons	.7871021	.104151	7.56	0.000	.5829699	.9912343
anxagw1 <-						
illw1	.1523596	.0515402	2.96	0.003	.0513427	.2533766
age	.1158948	.049673	2.33	0.020	.0185375	.2132521
injselfr	.138174	.049721	2.78	0.005	.0407226	.2356254
fdferw1	.2455332	.0474138	5.18	0.000	.1526039	.3384624
_cons	-.3578377	.2103271	-1.70	0.089	-.7700713	.054396
shhlw1 <-						
age	.1118586	.050309	2.22	0.026	.0132548	.2104623
fdferw1	.253782	.0483709	5.25	0.000	.1589768	.3485872
_cons	.313467	.2235452	1.40	0.161	-.1246736	.7516075
Variance						
e.crhtw1	.725639	.0391478			.6528281	.8065706
e.crhtw2	.391799	.0306286			.3361408	.4566732
e.crhtw3	.0927292	.0089803			.0766978	.1121115
e.illw2	.830588	.0354296			.7639708	.9030142
e.illw3	.6693442	.0396004			.59606	.7516387
e.BSIanx	.7371495	.0488529			.6473575	.8393962

e.illw1	.8567537	.0346567	.7914507	.9274448
e.anxagw2	.721961	.0429477	.6425069	.8112406
e.shhlw2	.7558965	.0504415	.6632254	.8615165
e.anxagw1	.840499	.0339188	.7765806	.9096784
e.shhlw1	.915276	.0274051	.8631087	.9705964

LR test of model vs. saturated: $\chi^2(53) = 64.85$, Prob > $\chi^2 = 0.1274$

54 . estat stable, detail // moduli must be within unit circle

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.05012234 + .450336i	.453117
.05012234 - .450336i	.453117
-.3457715 + .1593844i	.380738
-.3457715 - .1593844i	.380738
.3558765	.355876
.2503739	.250374
-.00747606 + .2098756i	.210009
-.00747606 - .2098756i	.210009
6.349e-17 + 2.399e-09i	2.4e-09
6.349e-17 - 2.399e-09i	2.4e-09
0	0

stability index = .4531167

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

		observed					
>	Beta	crhtw1	crhtw2	crhtw3	illw2	illw3	B
> SIanx	illw1	anxagw2	shhlw2	anxagw1	shhlw1		
>	observed						
>							
>	crhtw1	0	0	0	0	0	
> 0	-.4230516	0	0	0	.0034097		
>	crhtw2	.5727314	0	0	0	0	.04
> 19468	.1766982	0	0	0	0		
>	crhtw3	-.0898639	.9919706	0	0	0	.01
> 05544	0	.0027372	0	-.0019059	0		
>	illw2	-.3535116	.3756829	0	0	0	

```

>      0      0      0      0      0      .003699
      illw3 | -.737797      0      .5743192      .1209159      0
>      0      0      0      0      0      0
      BSIanx |      0      0      -.7877405      .8831681      .4492664
>      0      .0221537      .0123384      .0195129      0
      illw1 |      0      0      0      0      0      .0
> 32428      0      0      0      0      0
      anxagw2 |      0      0      0      6.996976      0
>      0      0      -.1423695      .3056647      0
      shhlw2 |      0      0      0      0      0
>      0      .331152      0      0      .6087452
      anxagw1 |      0      0      0      0      0
>      0 10.76641      0      0      0      0
      shhlw1 |      0      0      0      0      0
>      0      0      0      0      0

```

```

>

```

55 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(53)	64.852	model vs. saturated
p > chi2	0.127	
chi2_bs(99)	2122.063	baseline vs. saturated
p > chi2	0.000	

56 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-14228.58	68	28593.15	28857.78

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

```
57 . estat residuals
```

Residuals of observed variables

Mean residuals

```

> S|anx      |      crhtw1      crhtw2      crhtw3      illw2      illw3      B
>   illw1   |      anxagw2      shhlw2      anxagw1      shhlw1      age      m
> edcow1   |      fdferw1
> _____|_____
> _____|_____
> _____|_____
> raw      |      -0.000      0.000      0.000      0.000      0.000
> 0.000    |      -0.000      0.000      0.000      -0.000      0.000
> 0.000    |      0.000      0.000
> _____|_____
> _____|_____
> _____|_____

```

Covariance residuals

```

> S|anx      |      crhtw1      crhtw2      crhtw3      illw2      illw3      B
>   illw1   |      anxagw2      shhlw2      anxagw1      shhlw1      age      m
> edcow1   |      fdferw1
> _____|_____
> _____|_____
> _____|_____
> crhtw1   |      -0.011
> _____|_____
> _____|_____
> crhtw2   |      -0.002      0.007
> _____|_____
> _____|_____
> crhtw3   |      -0.004      0.008      0.010
> _____|_____
> _____|_____
> illw2    |      0.002      0.008      0.012      0.005
> _____|_____
> _____|_____
> illw3    |      0.001      -0.008      0.016      0.010      0.017
> _____|_____
> _____|_____
> BS|anx   |      0.043      0.068      0.070      0.088      0.119
> 0.289    |
> _____|_____
> _____|_____
> illw1    |      0.019      0.017      0.013      0.011      0.001      -
> 0.005    |      -0.001
> _____|_____
> _____|_____
> anxagw2  |      -0.057      0.714      0.736      0.230      1.614
> _____|_____
> _____|_____

```

```

> 0.850      -0.360      -8.751
>
>          shhlw2 |      -1.471      1.528      1.844      1.612      4.228
> 6.873      0.698      53.000      32.395
>
>          anxagw1 |      1.190      0.961      0.852      1.391      -0.671
> 2.343      0.398      -9.208      151.577      8.644
>
>          shhlw1 |      0.405      0.670      0.097      0.109      -2.338
> 5.378      0.681      93.497      27.950      116.177      0.000
>
>          age |      -0.257      0.250      0.335      0.185      0.405
> 2.565      0.609      15.299      0.767      6.552      0.000      0.000
>
>          medcow1 |      0.032      -0.088      -0.149      -0.267      -0.309      -
> 0.202      -0.007      -1.127      -2.775      11.336      8.512      0.000
> 0.000
>          injselfr |      -0.005      0.001      0.002      0.023      0.025
> 0.039      0.015      0.137      0.292      0.156      0.404      0.000
> 0.000      0.000
>          fdferw1 |      0.452      0.535      1.425      1.635      0.439
> 5.791      0.188      50.707      154.453      2.022      0.000      0.000
> 0.000      0.000      0.000

```

```

58 . estat framework
(model contains no latent variables)

```

Endogenous variables on endogenous variables

```

>          | observed
>
>          Beta |      crhtw1      crhtw2      crhtw3      illw2      illw3      B
> SIanx      illw1 |      anxagw2      shhlw2      anxagw1      shhlw1
>
> observed |
>
>          crhtw1 |      0      0      0      0      0
> 0      -.4230516 |      0      0      0      .0034097
>          crhtw2 |      .5727314      0      0      0      0      .04
> 19468      .1766982 |      0      0      0      0
>          crhtw3 |      -.0898639      .9919706      0      0      0      .01
> 05544      0      .0027372      0      -.0019059      0
>          illw2 |      -.3535116      .3756829      0      0      0
> 0      0      0      0      0      .003699
>          illw3 |      -.737797      0      .5743192      .1209159      0

```

```

>      0      0      0      0      0      0
>      BSIanx |      0      0  -.7877405  .8831681  .4492664
>      0      0  .0221537  .0123384  .0195129      0
>      illw1 |      0      0      0      0      0      0
> 32428      0      0      0      0      0
>      anxagw2 |      0      0      0      6.996976      0
>      0      0      0  -.1423695  .3056647      0
>      shhlw2 |      0      0      0      0      0
>      0      0  .331152      0      0  .6087452
>      anxagw1 |      0      0      0      0      0
>      0  10.76641      0      0      0      0
>      shhlw1 |      0      0      0      0      0
>      0      0      0      0      0

```

```

>

```

Exogenous variables on endogenous variables

	observed				
Gamma	age	medcow1	injselfr	fdferw1	
observed					
crhtw1	.01434	.0565672	.5227741	0	
crhtw2	0	0	.4333504	.0025355	
crhtw3	0	0	.1410717	0	
illw2	.0107816	0	0	0	
illw3	.0186095	0	0	0	
BSIanx	0	0	1.614753	0	
illw1	0	.027124	0	-.0015187	
anxagw2	0	0	0	0	
shhlw2	0	0	-7.445438	0	
anxagw1	.3446171	0	10.48057	.2281941	
shhlw1	.321681	0	0	.2281068	

Covariances of error variables

```

>      | observed
>      Psi | e.crhtw1 e.crhtw2 e.crhtw3 e.illw2 e.illw3 e.B
> SIanx e.illw1 | e.anxagw2 e.shhlw2 e.anxagw1 e.shhlw1
>
> observed |
>      e.crhtw1 | .6536773
>      e.crhtw2 |      0      .294639
>

```

```

>      e.crhtw3 |      0      0      .072712
>      e.illw2 |      0      0      0      .647175
>      e.illw3 |      0      0      0      0      .8949426
>      e.BSIanx |      0      0      0      0      0      9.6
> 05829
>      e.illw1 |      0      0      0      0      0
> 0      .2119491
>      e.anxagw2 |      0      0      0      0      0
> 0      0      371.7592
>      e.shhlw2 |      0      0      0      0      0
> 0      0      0      1135.957
>      e.anxagw1 |      0      0      0      0      0
> 0      0      0      0      1038.28
>      e.shhlw1 |      0      0      0      0      0
> 0      0      0      0      0      1057.538
>
>

```

Intercepts of endogenous variables

```

>      | observed
>      alpha | crhtw1 crhtw2 crhtw3 illw2 illw3 B
> SIanx      |
>      illw1 | anxagw2 shhlw2 anxagw1 shhlw1
>
>      _cons | -1.142329 -.7056334 -.1670712 -.2761528 -.2740257 6.0
> 06763      | -.1271712 9.093708 30.51271 -12.57693 10.65525
>
>

```

Covariances of exogenous variables

	Phi	observed			
		age	medcow1	injselfr	fdferw1
observed					
	age	139.7112			
	medcow1	7.471185	17.23073		
	injselfr	1.161854	.4041238	.2147141	
	fdferw1	61.46068	20.39347	3.178719	1430.173

Means of exogenous variables

kappa	observed			
	age	medcow1	injselfr	fdferw1
mean	50.27072	2.657459	.6878453	37.43094

59 . estat teffects

Direct effects

	OIM		z	P> z	[95% Conf. Interval]	
	Coef.	Std. Err.				
Structural						
crhtw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	-.4230516	.0912611	-4.64	0.000	-.6019202	-.2441831
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.0034097	.0012706	2.68	0.007	.0009194	.0059001
age	.01434	.0037514	3.82	0.000	.0069873	.0216927
medcow1	.0565672	.0107582	5.26	0.000	.0354815	.0776528
injselfr	.5227741	.0958765	5.45	0.000	.3348597	.7106886
fdferw1	0	(no path)				
crhtw2 <-						
crhtw1	.5727314	.033824	16.93	0.000	.5064376	.6390253
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.0419468	.0134784	3.11	0.002	.0155297	.0683639
illw1	.1766982	.0612721	2.88	0.004	.0566071	.2967892
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	.4333504	.0713207	6.08	0.000	.2935643	.5731365
fdferw1	.0025355	.0007945	3.19	0.001	.0009784	.0040927

crhtw3 <-						
crhtw1	-.0898639	.0219937	-4.09	0.000	-.1329708	-.0467571
crhtw2	.9919706	.0258565	38.36	0.000	.9412928	1.042648
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.0105544	.0052142	2.02	0.043	.0003347	.0207741
illw1	0	(no path)				
anxagw2	.0027372	.0007386	3.71	0.000	.0012895	.004185
shhlw2	0	(no path)				
anxagw1	-.0019059	.0004794	-3.98	0.000	-.0028455	-.0009663
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	.1410717	.036275	3.89	0.000	.069974	.2121693
fdferw1	0	(no path)				
illw2 <-						
crhtw1	-.3535116	.0644078	-5.49	0.000	-.4797485	-.2272747
crhtw2	.3756829	.0731283	5.14	0.000	.232354	.5190117
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.003699	.0012786	2.89	0.004	.001193	.006205
age	.0107816	.0037698	2.86	0.004	.003393	.0181702
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
illw3 <-						
crhtw1	-.737797	.0691634	-10.67	0.000	-.8733548	-.6022392
crhtw2	0	(no path)				
crhtw3	.5743192	.0760482	7.55	0.000	.4252675	.7233709
illw2	.1209159	.0613788	1.97	0.049	.0006156	.2412162
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	.0186095	.0044632	4.17	0.000	.0098617	.0273573
medcow1	0	(no path)				
injselfr	0	(no path)				

fdferw1	0	(no path)				
BSIanx <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	- .7877405	.3716985	-2.12	0.034	-1.516256	-.0592249
illw2	.8831681	.2110875	4.18	0.000	.4694441	1.296892
illw3	.4492664	.1640361	2.74	0.006	.1277615	.7707713
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	.0221537	.0089531	2.47	0.013	.0046059	.0397015
shhlw2	.0123384	.004548	2.71	0.007	.0034245	.0212524
anxagw1	.0195129	.0056116	3.48	0.001	.0085144	.0305114
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	1.614753	.5261546	3.07	0.002	.583509	2.645997
fdferw1	0	(no path)				
illw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.032428	.0071287	4.55	0.000	.0184561	.0464
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	.027124	.0058792	4.61	0.000	.015601	.0386469
injselfr	0	(no path)				
fdferw1	-.0015187	.0006535	-2.32	0.020	-.0027996	-.0002378
anxagw2 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	6.996976	1.191456	5.87	0.000	4.661765	9.332186
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	-.1423695	.0404666	-3.52	0.000	-.2216826	-.0630564
anxagw1	.3056647	.0305344	10.01	0.000	.2458185	.365511
shhlw1	0	(no path)				
age	0	(no path)				

medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
shhlw2 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	.331152	.1210079	2.74	0.006	.0939808	.5683231
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.6087452	.0526495	11.56	0.000	.505554	.7119363
age	0	(no path)				
medcow1	0	(no path)				
injselfr	-7.445438	3.932484	-1.89	0.058	-15.15297	.2620893
fdferw1	0	(no path)				
anxagw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	10.76641	3.660546	2.94	0.003	3.591868	17.94094
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	.3446171	.1488636	2.31	0.021	.0528498	.6363844
medcow1	0	(no path)				
injselfr	10.48057	3.817959	2.75	0.006	2.997502	17.96363
fdferw1	.2281941	.0459929	4.96	0.000	.1380497	.3183385
shhlw1 <-						
age	.321681	.1459898	2.20	0.028	.0355463	.6078157
fdferw1	.2281068	.0456293	5.00	0.000	.1386751	.3175386

Indirect effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
crhtw1	.0102077	.0010884	9.38	0.000	.0080744	.012341
crhtw2	.001537	.0011374	1.35	0.177	-.0006923	.0037663
crhtw3	.0073325	.0052	1.41	0.159	-.0028594	.0175244
illw2	-.0152699	.0029845	-5.12	0.000	-.0211193	-.0094204
illw3	-.0062189	.0022706	-2.74	0.006	-.0106692	-.0017685
BSIanx	-.0138422	.0030724	-4.51	0.000	-.019864	-.0078205
illw1	-.0081837	.0017183	-4.76	0.000	-.0115516	-.0048158
anxagw2	-.0003277	.000125	-2.62	0.009	-.0005726	-.0000828
shhlw2	-.0001241	.0000649	-1.91	0.056	-.0002513	2.97e-06
anxagw1	-.0003842	.0000786	-4.89	0.000	-.0005383	-.0002302
shhlw1	-.0000972	.0000243	-4.00	0.000	-.0001449	-.0000496
age	.0007992	.0006472	1.23	0.217	-.0004693	.0020677
medcow1	-.0111194	.0035216	-3.16	0.002	-.0180217	-.0042171
injselfr	-.0184178	.0075077	-2.45	0.014	-.0331326	-.0037031
fdferw1	.0013267	.0004477	2.96	0.003	.0004493	.0022042
crhtw2 <-						
crhtw1	-.0296286	.0031593	-9.38	0.000	-.0358206	-.0234365
crhtw2	-.0044612	.0033015	-1.35	0.177	-.010932	.0020095
crhtw3	-.0212831	.0150935	-1.41	0.159	-.0508657	.0082995
illw2	.0443219	.0086626	5.12	0.000	.0273435	.0613003
illw3	.0180507	.0065907	2.74	0.006	.0051332	.0309682
BSIanx	-.0017687	.0003371	-5.25	0.000	-.0024293	-.001108
illw1	-.2185412	.049582	-4.41	0.000	-.3157202	-.1213622
anxagw2	.0009512	.0003627	2.62	0.009	.0002403	.0016621
shhlw2	.0003603	.0001882	1.91	0.056	-8.64e-06	.0007293
anxagw1	.0011153	.0002281	4.89	0.000	.0006682	.0015624
shhlw1	.0022351	.0006927	3.23	0.001	.0008775	.0035927
age	.0097052	.0021454	4.52	0.000	.0055004	.0139101
medcow1	.0295868	.0062314	4.75	0.000	.0173734	.0418003
injselfr	.3528683	.0611481	5.77	0.000	.2330203	.4727163
fdferw1	.0008166	.0002455	3.33	0.001	.0003354	.0012978
crhtw3 <-						
crhtw1	.5274592	.0342224	15.41	0.000	.4603844	.5945339
crhtw2	.001128	.0055735	0.20	0.840	-.0097959	.0120519
crhtw3	-.0273994	.019431	-1.41	0.159	-.0654835	.0106847
illw2	.0753492	.0120417	6.26	0.000	.051748	.0989504
illw3	.0232381	.0084847	2.74	0.006	.0066084	.0398678
BSIanx	.0411702	.0133308	3.09	0.002	.0150422	.0672981
illw1	-.0061052	.0726944	-0.08	0.933	-.1485836	.1363732
anxagw2	.0011013	.0004642	2.37	0.018	.0001915	.002011

shhlw2	.0000917	.0002871	0.32	0.749	-.0004709	.0006543
anxagw1	.0022348	.0003155	7.08	0.000	.0016165	.0028531
shhlw1	.0018266	.0005643	3.24	0.001	.0007206	.0029327
age	.0082209	.0018064	4.55	0.000	.0046804	.0117614
medcow1	.0245879	.0052724	4.66	0.000	.0142542	.0349216
injselfr	.7415448	.0793571	9.34	0.000	.5860077	.8970819
fdferw1	.003019	.0007971	3.79	0.000	.0014567	.0045813
illw2 <-						
crhtw1	.2004259	.0128006	15.66	0.000	.1753372	.2255146
crhtw2	-.0022193	.0016424	-1.35	0.177	-.0054384	.0009997
crhtw3	-.0105878	.0075086	-1.41	0.159	-.0253044	.0041288
illw2	.0220491	.0043094	5.12	0.000	.0136027	.0304954
illw3	.0089798	.0032787	2.74	0.006	.0025537	.0154059
BSIanx	.0199876	.0051577	3.88	0.000	.0098788	.0300965
illw1	.136727	.0269478	5.07	0.000	.0839103	.1895437
anxagw2	.0004732	.0001804	2.62	0.009	.0001195	.0008268
shhlw2	.0001793	.0000936	1.91	0.056	-4.30e-06	.0003628
anxagw1	.0005548	.0001135	4.89	0.000	.0003324	.0007772
shhlw1	-.0003313	.0001968	-1.68	0.092	-.000717	.0000544
age	-.0005159	.001098	-0.47	0.638	-.0026678	.0016361
medcow1	-.0049511	.0029946	-1.65	0.098	-.0108204	.0009183
injselfr	.1170731	.0523324	2.24	0.025	.0145035	.2196426
fdferw1	.0016341	.000486	3.36	0.001	.0006816	.0025866
illw3 <-						
crhtw1	.2252777	.0271221	8.31	0.000	.1721192	.2784361
crhtw2	.6143793	.0190727	32.21	0.000	.5769975	.6517612
crhtw3	-.0224261	.0159041	-1.41	0.159	-.0535976	.0087453
illw2	.0572066	.0095737	5.98	0.000	.0384425	.0759708
illw3	.0190201	.0069446	2.74	0.006	.0054089	.0326314
BSIanx	.042336	.0101266	4.18	0.000	.0224881	.0621838
illw1	.3311902	.0601897	5.50	0.000	.2132206	.4491599
anxagw2	.0025035	.0005486	4.56	0.000	.0014284	.0035787
shhlw2	.0001659	.0002211	0.75	0.453	-.0002675	.0005994
anxagw1	.0005395	.0003652	1.48	0.140	-.0001762	.0012552
shhlw1	-.0009877	.00069	-1.43	0.152	-.00234	.0003646
age	-.0052069	.0023431	-2.22	0.026	-.0097992	-.0006146
medcow1	-.0200086	.0065038	-3.08	0.002	-.0327558	-.0072614
injselfr	.1489471	.0859887	1.73	0.083	-.0195878	.3174819
fdferw1	.0009526	.0005908	1.61	0.107	-.0002053	.0021105
BSIanx <-						
crhtw1	-.7440692	.0793395	-9.38	0.000	-.8995717	-.5885666
crhtw2	-.1120358	.0829103	-1.35	0.177	-.2745371	.0504654
crhtw3	.2532529	.0348703	7.26	0.000	.1849083	.3215975
illw2	.2298988	.0399055	5.76	0.000	.1516855	.3081121
illw3	.0040451	.0014769	2.74	0.006	.0011503	.0069398
BSIanx	.0090037	.0054683	1.65	0.100	-.001714	.0197214

illw1	.5965345	.1252549	4.76	0.000	.3510395	.8420295
anxagw2	.001733	.001166	1.49	0.137	-.0005524	.0040183
shhlw2	-.0032896	.0009691	-3.39	0.001	-.0051891	-.0013902
anxagw1	.0084957	.0007757	10.95	0.000	.0069754	.010016
shhlw1	.0070886	.0017738	4.00	0.000	.0036121	.0105651
age	.0216991	.0079603	2.73	0.006	.0060971	.037301
medcow1	-.0259095	.013199	-1.96	0.050	-.051779	-.00004
injselfr	-.2722201	.3743746	-0.73	0.467	-1.005981	.4615407
fdferw1	.0068183	.0020639	3.30	0.001	.0027732	.0108635
illw1 <-						
crhtw1	-.0241287	.0025728	-9.38	0.000	-.0291713	-.0190861
crhtw2	-.0036331	.0026886	-1.35	0.177	-.0089027	.0016365
crhtw3	-.0173324	.0122917	-1.41	0.159	-.0414237	.0067589
illw2	.0360946	.0070546	5.12	0.000	.0222678	.0499213
illw3	.0147	.0053673	2.74	0.006	.0041804	.0252196
BSI anx	.000292	.0001773	1.65	0.100	-.0000556	.0006395
illw1	.0193444	.0040618	4.76	0.000	.0113835	.0273053
anxagw2	.0007746	.0002954	2.62	0.009	.0001957	.0013535
shhlw2	.0002934	.0001533	1.91	0.056	-7.03e-06	.0005939
anxagw1	.0009083	.0001858	4.89	0.000	.0005442	.0012724
shhlw1	.0002299	.0000575	4.00	0.000	.0001171	.0003426
age	.0007037	.0002968	2.37	0.018	.0001219	.0012855
medcow1	-.0008402	.0004752	-1.77	0.077	-.0017716	.0000912
injselfr	.0435357	.0161126	2.70	0.007	.0119556	.0751158
fdferw1	.0002211	.0000797	2.77	0.006	.0000648	.0003774
anxagw2 <-						
crhtw1	-1.098741	.4590078	-2.39	0.017	-1.99838	-.1991024
crhtw2	2.484046	.5078024	4.89	0.000	1.488772	3.479321
crhtw3	-.1252184	.0888019	-1.41	0.159	-.299267	.0488301
illw2	-.0542602	.0679308	-0.80	0.424	-.187402	.0788817
illw3	.1062007	.038776	2.74	0.006	.0302011	.1822003
BSI anx	.2363869	.0454929	5.20	0.000	.1472225	.3255513
illw1	4.11714	1.110957	3.71	0.000	1.939705	6.294576
anxagw2	-.0394272	.0163558	-2.41	0.016	-.071484	-.0073703
shhlw2	.0085299	.0018878	4.52	0.000	.0048298	.0122299
anxagw1	-.0072003	.001774	-4.06	0.000	-.0106772	-.0037233
shhlw1	-.0595394	.0114196	-5.21	0.000	-.0819213	-.0371574
age	.1447772	.0541641	2.67	0.008	.0386174	.2509369
medcow1	.0495204	.0435894	1.14	0.256	-.0359132	.1349541
injselfr	4.990682	1.388523	3.59	0.000	2.269226	7.712137
fdferw1	.0545722	.0163616	3.34	0.001	.022504	.0866404
shhlw2 <-						
crhtw1	-.3638503	.1520013	-2.39	0.017	-.6617674	-.0659332
crhtw2	.8225968	.1681597	4.89	0.000	.4930097	1.152184
crhtw3	-.0414663	.0294069	-1.41	0.159	-.0991029	.0161702
illw2	2.299094	.379811	6.05	0.000	1.554678	3.04351

illw3	.0351686	.0128407	2.74	0.006	.0100012	.060336
BSIanx	.07828	.0150651	5.20	0.000	.048753	.107807
illw1	1.363399	.3678956	3.71	0.000	.642337	2.084461
anxagw2	-.0130564	.0054163	-2.41	0.016	-.0236721	-.0024407
shhlw2	-.0443213	.0128914	-3.44	0.001	-.069588	-.0190545
anxagw1	.0988371	.0097317	10.16	0.000	.0797632	.1179109
shhlw1	-.0197166	.0037816	-5.21	0.000	-.0271284	-.0123047
age	.243765	.0903576	2.70	0.007	.0666674	.4208626
medcow1	.0163988	.0155421	1.06	0.291	-.0140631	.0468607
injselfr	1.652674	.8327691	1.98	0.047	.0204765	3.284871
fdferw1	.1569306	.0299502	5.24	0.000	.0982292	.215632
anxagw1 <-						
crhtw1	-.2597793	.0277001	-9.38	0.000	-.3140704	-.2054882
crhtw2	-.0391154	.0289468	-1.35	0.177	-.09585	.0176192
crhtw3	-.1866074	.1323375	-1.41	0.159	-.4459841	.0727693
illw2	.3886086	.0759527	5.12	0.000	.2397441	.5374732
illw3	.1582661	.0577861	2.74	0.006	.0450074	.2715248
BSIanx	.3522767	.0781899	4.51	0.000	.1990274	.5055261
illw1	.20827	.0437306	4.76	0.000	.1225595	.2939805
anxagw2	.0083396	.0031802	2.62	0.009	.0021066	.0145727
shhlw2	.0031592	.0016505	1.91	0.056	-.0000757	.0063942
anxagw1	.0097787	.0020001	4.89	0.000	.0058586	.0136988
shhlw1	.0024749	.0006193	4.00	0.000	.0012611	.0036886
age	.0075759	.0036986	2.05	0.041	.0003268	.014825
medcow1	.2829816	.1169787	2.42	0.016	.0537075	.5122558
injselfr	.4687229	.2170401	2.16	0.031	.0433321	.8941136
fdferw1	-.0139702	.0085349	-1.64	0.102	-.0306983	.002758
shhlw1 <-						
age	0	(no path)				
fdferw1	0	(no path)				

Total effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
crhtw1	.0102077	.0010884	9.38	0.000	.0080744	.012341
crhtw2	.001537	.0011374	1.35	0.177	-.0006923	.0037663
crhtw3	.0073325	.0052	1.41	0.159	-.0028594	.0175244
illw2	-.0152699	.0029845	-5.12	0.000	-.0211193	-.0094204
illw3	-.0062189	.0022706	-2.74	0.006	-.0106692	-.0017685
BSIanx	-.0138422	.0030724	-4.51	0.000	-.019864	-.0078205
illw1	-.4312353	.0922555	-4.67	0.000	-.6120528	-.2504178

anxagw2	-.0003277	.000125	-2.62	0.009	-.0005726	-.0000828
shhlw2	-.0001241	.0000649	-1.91	0.056	-.0002513	2.97e-06
anxagw1	-.0003842	.0000786	-4.89	0.000	-.0005383	-.0002302
shhlw1	.0033125	.0012838	2.58	0.010	.0007964	.0058286
age	.0151392	.0037896	3.99	0.000	.0077117	.0225666
medcow1	.0454478	.0109858	4.14	0.000	.0239161	.0669795
injselfr	.5043563	.0968918	5.21	0.000	.3144518	.6942607
fdferw1	.0013267	.0004477	2.96	0.003	.0004493	.0022042
crhtw2 <-						
crhtw1	.5431029	.0339645	15.99	0.000	.4765336	.6096721
crhtw2	-.0044612	.0033015	-1.35	0.177	-.010932	.0020095
crhtw3	-.0212831	.0150935	-1.41	0.159	-.0508657	.0082995
illw2	.0443219	.0086626	5.12	0.000	.0273435	.0613003
illw3	.0180507	.0065907	2.74	0.006	.0051332	.0309682
BSIanx	.0401782	.013365	3.01	0.003	.0139831	.0663732
illw1	-.041843	.0785159	-0.53	0.594	-.1957314	.1120454
anxagw2	.0009512	.0003627	2.62	0.009	.0002403	.0016621
shhlw2	.0003603	.0001882	1.91	0.056	-8.64e-06	.0007293
anxagw1	.0011153	.0002281	4.89	0.000	.0006682	.0015624
shhlw1	.0022351	.0006927	3.23	0.001	.0008775	.0035927
age	.0097052	.0021454	4.52	0.000	.0055004	.0139101
medcow1	.0295868	.0062314	4.75	0.000	.0173734	.0418003
injselfr	.7862187	.0830037	9.47	0.000	.6235344	.948903
fdferw1	.0033521	.000801	4.18	0.000	.0017821	.0049221
crhtw3 <-						
crhtw1	.4375952	.0403533	10.84	0.000	.3585042	.5166862
crhtw2	.9930986	.0256062	38.78	0.000	.9429114	1.043286
crhtw3	-.0273994	.019431	-1.41	0.159	-.0654835	.0106847
illw2	.0753492	.0120417	6.26	0.000	.051748	.0989504
illw3	.0232381	.0084847	2.74	0.006	.0066084	.0398678
BSIanx	.0517245	.0159732	3.24	0.001	.0204177	.0830313
illw1	-.0061052	.0726944	-0.08	0.933	-.1485836	.1363732
anxagw2	.0038385	.0008431	4.55	0.000	.0021861	.0054909
shhlw2	.0000917	.0002871	0.32	0.749	-.0004709	.0006543
anxagw1	.0003289	.0005634	0.58	0.559	-.0007754	.0014332
shhlw1	.0018266	.0005643	3.24	0.001	.0007206	.0029327
age	.0082209	.0018064	4.55	0.000	.0046804	.0117614
medcow1	.0245879	.0052724	4.66	0.000	.0142542	.0349216
injselfr	.8826165	.0833755	10.59	0.000	.7192035	1.046029
fdferw1	.003019	.0007971	3.79	0.000	.0014567	.0045813
illw2 <-						
crhtw1	-.1530857	.06762	-2.26	0.024	-.2856185	-.0205529
crhtw2	.3734635	.0747482	5.00	0.000	.2269597	.5199674
crhtw3	-.0105878	.0075086	-1.41	0.159	-.0253044	.0041288
illw2	.0220491	.0043094	5.12	0.000	.0136027	.0304954
illw3	.0089798	.0032787	2.74	0.006	.0025537	.0154059

BSIanx	.0199876	.0051577	3.88	0.000	.0098788	.0300965
illw1	.136727	.0269478	5.07	0.000	.0839103	.1895437
anxagw2	.0004732	.0001804	2.62	0.009	.0001195	.0008268
shhlw2	.0001793	.0000936	1.91	0.056	-4.30e-06	.0003628
anxagw1	.0005548	.0001135	4.89	0.000	.0003324	.0007772
shhlw1	.0033677	.0013212	2.55	0.011	.0007781	.0059573
age	.0102657	.0038046	2.70	0.007	.0028088	.0177226
medcow1	-.0049511	.0029946	-1.65	0.098	-.0108204	.0009183
injselfr	.1170731	.0523324	2.24	0.025	.0145035	.2196426
fdferw1	.0016341	.000486	3.36	0.001	.0006816	.0025866
illw3 <-						
crhtw1	-.5125193	.075779	-6.76	0.000	-.6610435	-.3639952
crhtw2	.6143793	.0190727	32.21	0.000	.5769975	.6517612
crhtw3	.5518931	.0801592	6.88	0.000	.3947839	.7090023
illw2	.1781226	.0633026	2.81	0.005	.0540517	.3021934
illw3	.0190201	.0069446	2.74	0.006	.0054089	.0326314
BSIanx	.042336	.0101266	4.18	0.000	.0224881	.0621838
illw1	.3311902	.0601897	5.50	0.000	.2132206	.4491599
anxagw2	.0025035	.0005486	4.56	0.000	.0014284	.0035787
shhlw2	.0001659	.0002211	0.75	0.453	-.0002675	.0005994
anxagw1	.0005395	.0003652	1.48	0.140	-.0001762	.0012552
shhlw1	-.0009877	.00069	-1.43	0.152	-.00234	.0003646
age	.0134026	.0048246	2.78	0.005	.0039466	.0228586
medcow1	-.0200086	.0065038	-3.08	0.002	-.0327558	-.0072614
injselfr	.1489471	.0859887	1.73	0.083	-.0195878	.3174819
fdferw1	.0009526	.0005908	1.61	0.107	-.0002053	.0021105
BSIanx <-						
crhtw1	-.7440692	.0793395	-9.38	0.000	-.8995717	-.5885666
crhtw2	-.1120358	.0829103	-1.35	0.177	-.2745371	.0504654
crhtw3	-.5344876	.3790458	-1.41	0.159	-1.277404	.2084285
illw2	1.113067	.2175464	5.12	0.000	.6866836	1.53945
illw3	.4533115	.1655131	2.74	0.006	.1289118	.7777111
BSIanx	.0090037	.0054683	1.65	0.100	-.001714	.0197214
illw1	.5965345	.1252549	4.76	0.000	.3510395	.8420295
anxagw2	.0238867	.0091088	2.62	0.009	.0060337	.0417396
shhlw2	.0090488	.0047275	1.91	0.056	-.0002169	.0183144
anxagw1	.0280085	.0057287	4.89	0.000	.0167805	.0392366
shhlw1	.0070886	.0017738	4.00	0.000	.0036121	.0105651
age	.0216991	.0079603	2.73	0.006	.0060971	.037301
medcow1	-.0259095	.013199	-1.96	0.050	-.051779	-.00004
injselfr	1.342533	.388351	3.46	0.001	.581379	2.103687
fdferw1	.0068183	.0020639	3.30	0.001	.0027732	.0108635
illw1 <-						
crhtw1	-.0241287	.0025728	-9.38	0.000	-.0291713	-.0190861
crhtw2	-.0036331	.0026886	-1.35	0.177	-.0089027	.0016365
crhtw3	-.0173324	.0122917	-1.41	0.159	-.0414237	.0067589

illw2	.0360946	.0070546	5.12	0.000	.0222678	.0499213
illw3	.0147	.0053673	2.74	0.006	.0041804	.0252196
BSIanx	.03272	.0072624	4.51	0.000	.018486	.046954
illw1	.0193444	.0040618	4.76	0.000	.0113835	.0273053
anxagw2	.0007746	.0002954	2.62	0.009	.0001957	.0013535
shhlw2	.0002934	.0001533	1.91	0.056	-7.03e-06	.0005939
anxagw1	.0009083	.0001858	4.89	0.000	.0005442	.0012724
shhlw1	.0002299	.0000575	4.00	0.000	.0001171	.0003426
age	.0007037	.0002968	2.37	0.018	.0001219	.0012855
medcow1	.0262838	.0060092	4.37	0.000	.0145059	.0380616
injselfr	.0435357	.0161126	2.70	0.007	.0119556	.0751158
fdferw1	-.0012976	.0006637	-1.95	0.051	-.0025985	3.33e-06
anxagw2 <-						
crhtw1	-1.098741	.4590078	-2.39	0.017	-1.99838	-.1991024
crhtw2	2.484046	.5078024	4.89	0.000	1.488772	3.479321
crhtw3	-.1252184	.0888019	-1.41	0.159	-.299267	.0488301
illw2	6.942715	1.146939	6.05	0.000	4.694757	9.190674
illw3	.1062007	.038776	2.74	0.006	.0302011	.1822003
BSIanx	.2363869	.0454929	5.20	0.000	.1472225	.3255513
illw1	4.11714	1.110957	3.71	0.000	1.939705	6.294576
anxagw2	-.0394272	.0163558	-2.41	0.016	-.071484	-.0073703
shhlw2	-.1338396	.0389291	-3.44	0.001	-.2101392	-.05754
anxagw1	.2984645	.0293875	10.16	0.000	.240866	.356063
shhlw1	-.0595394	.0114196	-5.21	0.000	-.0819213	-.0371574
age	.1447772	.0541641	2.67	0.008	.0386174	.2509369
medcow1	.0495204	.0435894	1.14	0.256	-.0359132	.1349541
injselfr	4.990682	1.388523	3.59	0.000	2.269226	7.712137
fdferw1	.0545722	.0163616	3.34	0.001	.022504	.0866404
shhlw2 <-						
crhtw1	-.3638503	.1520013	-2.39	0.017	-.6617674	-.0659332
crhtw2	.8225968	.1681597	4.89	0.000	.4930097	1.152184
crhtw3	-.0414663	.0294069	-1.41	0.159	-.0991029	.0161702
illw2	2.299094	.379811	6.05	0.000	1.554678	3.04351
illw3	.0351686	.0128407	2.74	0.006	.0100012	.060336
BSIanx	.07828	.0150651	5.20	0.000	.048753	.107807
illw1	1.363399	.3678956	3.71	0.000	.642337	2.084461
anxagw2	.3180956	.1156395	2.75	0.006	.0914463	.5447449
shhlw2	-.0443213	.0128914	-3.44	0.001	-.069588	-.0190545
anxagw1	.0988371	.0097317	10.16	0.000	.0797632	.1179109
shhlw1	.5890286	.0504039	11.69	0.000	.4902387	.6878184
age	.243765	.0903576	2.70	0.007	.0666674	.4208626
medcow1	.0163988	.0155421	1.06	0.291	-.0140631	.0468607
injselfr	-5.792764	3.696574	-1.57	0.117	-13.03792	1.452388
fdferw1	.1569306	.0299502	5.24	0.000	.0982292	.215632
anxagw1 <-						
crhtw1	-.2597793	.0277001	-9.38	0.000	-.3140704	-.2054882

crhtw2	-.0391154	.0289468	-1.35	0.177	-.09585	.0176192
crhtw3	-.1866074	.1323375	-1.41	0.159	-.4459841	.0727693
illw2	.3886086	.0759527	5.12	0.000	.2397441	.5374732
illw3	.1582661	.0577861	2.74	0.006	.0450074	.2715248
BSIanx	.3522767	.0781899	4.51	0.000	.1990274	.5055261
illw1	10.97468	3.697305	2.97	0.003	3.728092	18.22126
anxagw2	.0083396	.0031802	2.62	0.009	.0021066	.0145727
shhlw2	.0031592	.0016505	1.91	0.056	-.0000757	.0063942
anxagw1	.0097787	.0020001	4.89	0.000	.0058586	.0136988
shhlw1	.0024749	.0006193	4.00	0.000	.0012611	.0036886
age	.3521929	.1500579	2.35	0.019	.0580848	.6463011
medcow1	.2829816	.1169787	2.42	0.016	.0537075	.5122558
injselfr	10.94929	3.843897	2.85	0.004	3.415389	18.48319
fdferw1	.2142239	.0467769	4.58	0.000	.1225429	.305905
shhlw1 <-						
age	.321681	.1459898	2.20	0.028	.0355463	.6078157
fdferw1	.2281068	.0456293	5.00	0.000	.1386751	.3175386

60 . title4 "Robust version of complex female anxiety path model"

Robust version of complex female anxiety path model

```

61 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> illw2) ///
>      (crhtw1 -> illw3) (crhtw2 -> crhtw3) (crhtw2 -> illw2) ///
>      (crhtw3 -> BSIanx) (crhtw3 -> illw3) (BSIanx -> crhtw2) ///
>      (BSIanx -> crhtw3) (BSIanx -> illw1) (anxagw2 -> crhtw3) ///
>      (anxagw2 -> BSIanx) (anxagw2 -> shhlw2) (anxagw1 -> crhtw3) ///
>      (anxagw1 -> BSIanx) (anxagw1 -> anxagw2) (age -> crhtw1) ///
>      (age -> anxagw1) (age -> illw2) (age -> illw3) (age -> shhlw1) ///
>      (illw1 -> crhtw1) (illw1 -> crhtw2) (illw1 -> anxagw1) ///
>      (illw2 -> BSIanx) (illw2 -> anxagw2) (illw2 -> illw3) ///
>      (illw3 -> BSIanx) (shhlw1 -> crhtw1) (shhlw1 -> illw2) ///
>      (shhlw1 -> shhlw2) (medcow1 -> crhtw1) (medcow1 -> illw1) ///
>      (injselfr -> crhtw1) (injselfr -> crhtw2) (injselfr -> crhtw3) ///
>      (injselfr -> BSIanx) (injselfr -> anxagw1) (injselfr -> shhlw2) ///
>      (shhlw2 -> BSIanx) (shhlw2 -> anxagw2) (fdferw1 -> crhtw2) ///
>      (fdferw1 -> anxagw1) (fdferw1 -> illw1) (fdferw1 -> shhlw1) ///
>      if gender==2, nocapslatent nolog vce(cluster id)
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 illw2 illw3 BSIanx illw1 anxagw2 shhlw2
anxagw1 shhlw1**

Exogenous variables

Observed: **age medcow1 injselfr fdferw1**

Structural equation model

Number of obs = **362**

Estimation method = **ml**

Log pseudolikelihood= **-14228.576**

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
illw1	-.4230516	.092152	-4.59	0.000	-.6036663	-.2424369
shhlw1	.0034097	.0012275	2.78	0.005	.0010038	.0058157
age	.01434	.0038951	3.68	0.000	.0067057	.0219744
medcow1	.0565672	.0097016	5.83	0.000	.0375524	.075582
injselfr	.5227741	.1004426	5.20	0.000	.3259102	.719638
_cons	-1.142329	.1855183	-6.16	0.000	-1.505938	-.7787195
crhtw2 <-						
crhtw1	.5727314	.0411123	13.93	0.000	.4921529	.65331
BSIanx	.0419468	.0157808	2.66	0.008	.011017	.0728766
illw1	.1766982	.0643332	2.75	0.006	.0506073	.302789
injselfr	.4333504	.0823702	5.26	0.000	.2719078	.594793
fdferw1	.0025355	.0008171	3.10	0.002	.000934	.004137
_cons	-.7056334	.1194493	-5.91	0.000	-.9397496	-.4715171
crhtw3 <-						
crhtw1	-.0898639	.0316314	-2.84	0.004	-.1518603	-.0278675
crhtw2	.9919706	.0313763	31.62	0.000	.9304742	1.053467
BSIanx	.0105544	.0062056	1.70	0.089	-.0016084	.0227172
anxagw2	.0027372	.0008869	3.09	0.002	.000999	.0044755
anxagw1	-.0019059	.0005889	-3.24	0.001	-.00306	-.0007517
injselfr	.1410717	.0375975	3.75	0.000	.067382	.2147614
_cons	-.1670712	.0548395	-3.05	0.002	-.2745548	-.0595877
illw2 <-						
crhtw1	-.3535116	.0699703	-5.05	0.000	-.490651	-.2163722
crhtw2	.3756829	.0725654	5.18	0.000	.2334573	.5179084
shhlw1	.003699	.0016613	2.23	0.026	.0004429	.0069552
age	.0107816	.0030499	3.54	0.000	.0048039	.0167593
_cons	-.2761528	.1561172	-1.77	0.077	-.5821369	.0298312
illw3 <-						
crhtw1	-.737797	.0965482	-7.64	0.000	-.927028	-.548566
crhtw3	.5743192	.0915574	6.27	0.000	.39487	.7537684

illw2	.1209159	.0824504	1.47	0.143	-.0406838	.2825157
age	.0186095	.0046266	4.02	0.000	.0095416	.0276774
_cons	-.2740257	.2198568	-1.25	0.213	-.7049372	.1568858
BSIanx <-						
crhtw3	-.7877405	.4392482	-1.79	0.073	-1.648651	.0731701
illw2	.8831681	.2499683	3.53	0.000	.3932393	1.373097
illw3	.4492664	.2055843	2.19	0.029	.0463285	.8522043
anxagw2	.0221537	.0111378	1.99	0.047	.000324	.0439834
shhlw2	.0123384	.0045547	2.71	0.007	.0034115	.0212654
anxagw1	.0195129	.0065876	2.96	0.003	.0066014	.0324243
injselfr	1.614753	.5805306	2.78	0.005	.476934	2.752572
_cons	6.006763	.4510479	13.32	0.000	5.122726	6.890801
illw1 <-						
BSIanx	.032428	.0085815	3.78	0.000	.0156086	.0492474
medcow1	.027124	.0098555	2.75	0.006	.0078076	.0464403
fdferw1	-.0015187	.0007061	-2.15	0.031	-.0029025	-.0001348
_cons	-.1271712	.0676643	-1.88	0.060	-.2597907	.0054484
anxagw2 <-						
illw2	6.996976	1.563267	4.48	0.000	3.933029	10.06092
shhlw2	-.1423695	.043498	-3.27	0.001	-.227624	-.057115
anxagw1	.3056647	.0490436	6.23	0.000	.2095411	.4017884
_cons	9.093708	2.135313	4.26	0.000	4.908572	13.27885
shhlw2 <-						
anxagw2	.331152	.1218996	2.72	0.007	.092233	.5700709
shhlw1	.6087452	.0472081	12.89	0.000	.516219	.7012713
injselfr	-7.445438	3.991246	-1.87	0.062	-15.26814	.3772613
_cons	30.51271	3.861574	7.90	0.000	22.94417	38.08126
anxagw1 <-						
illw1	10.76641	4.458828	2.41	0.016	2.027264	19.50555
age	.3446171	.1388457	2.48	0.013	.0724845	.6167497
injselfr	10.48057	3.419896	3.06	0.002	3.777691	17.18344
fdferw1	.2281941	.0512083	4.46	0.000	.1278276	.3285606
_cons	-12.57693	6.308863	-1.99	0.046	-24.94208	-.2117855
shhlw1 <-						
age	.321681	.1517525	2.12	0.034	.0242516	.6191105
fdferw1	.2281068	.0464759	4.91	0.000	.1370157	.319198
_cons	10.65525	7.599479	1.40	0.161	-4.239454	25.54996
Variance						
e.crhtw1	.6536773	.0382557			.582838	.7331265
e.crhtw2	.294639	.0298007			.2416557	.3592389
e.crhtw3	.072712	.0106401			.0545819	.0968644
e.illw2	.647175	.1955031			.3580015	1.169927

shhlw1	.1424431	.0514544	2.77	0.006	.0415943	.2432919
age	.1443711	.0402323	3.59	0.000	.0655173	.223225
_cons	-.3128466	.1655785	-1.89	0.059	-.6373746	.0116814
illw3 <-						
crhtw1	-.6055994	.0678638	-8.92	0.000	-.73861	-.4725888
crhtw3	.4398205	.0601787	7.31	0.000	.3218724	.5577687
illw2	.0923057	.0535526	1.72	0.085	-.0126555	.1972669
age	.1902296	.0448832	4.24	0.000	.1022601	.2781991
_cons	-.2369837	.1882149	-1.26	0.208	-.6058782	.1319108
BSIanx <-						
crhtw3	-.1932362	.1061606	-1.82	0.069	-.4013071	.0148347
illw2	.2159592	.0569107	3.79	0.000	.1044163	.3275021
illw3	.1439087	.0644668	2.23	0.026	.0175562	.2702613
anxagw2	.1392613	.0697283	2.00	0.046	.0025963	.2759264
shhlw2	.1325013	.0483254	2.74	0.006	.0377853	.2272173
anxagw1	.1899854	.0629236	3.02	0.003	.0666574	.3133135
injselfr	.2072749	.0715826	2.90	0.004	.0669756	.3475743
_cons	1.663991	.1653744	10.06	0.000	1.339863	1.988119
illw1 <-						
BSIanx	.2353544	.0543572	4.33	0.000	.1288162	.3418926
medcow1	.2263691	.0700348	3.23	0.001	.0891034	.3636347
fdferw1	-.1154707	.0497009	-2.32	0.020	-.2128826	-.0180588
_cons	-.2556824	.1281518	-2.00	0.046	-.5068553	-.0045095
anxagw2 <-						
illw2	.2721789	.0797017	3.41	0.001	.1159665	.4283913
shhlw2	-.2432163	.0697696	-3.49	0.000	-.3799622	-.1064704
anxagw1	.4734346	.0571185	8.29	0.000	.3614843	.5853848
_cons	.400744	.0902196	4.44	0.000	.2239168	.5775712
shhlw2 <-						
anxagw2	.1938436	.0708392	2.74	0.006	.0550014	.3326858
shhlw1	.5337743	.0402597	13.26	0.000	.4548667	.6126819
injselfr	-.0889961	.0476942	-1.87	0.062	-.182475	.0044829
_cons	.7871021	.1011854	7.78	0.000	.5887823	.9854219
anxagw1 <-						
illw1	.1523596	.0678484	2.25	0.025	.0193793	.28534
age	.1158948	.0467876	2.48	0.013	.0241927	.2075968
injselfr	.138174	.0440199	3.14	0.002	.0518967	.2244514
fdferw1	.2455332	.0528799	4.64	0.000	.1418904	.3491759
_cons	-.3578377	.179736	-1.99	0.046	-.7101137	-.0055616
shhlw1 <-						
age	.1118586	.0528185	2.12	0.034	.0083361	.215381
fdferw1	.253782	.0506335	5.01	0.000	.1545421	.3530218

_cons	.313467	.2230742	1.41	0.160	-.1237505	.7506844
Variance						
e.crhtw1	.725639	.0368162			.6569523	.8015071
e.crhtw2	.391799	.0385905			.3230158	.475229
e.crhtw3	.0927292	.0144677			.0682985	.1258988
e.illw2	.830588	.04082			.7543148	.9145737
e.illw3	.6693442	.0464325			.5842538	.7668272
e.BSIanx	.7371495	.0552133			.6365019	.8537122
e.illw1	.8567537	.0484168			.766925	.9571038
e.anxagw2	.721961	.0523258			.6263556	.8321594
e.shhlw2	.7558965	.0563095			.6532106	.8747249
e.anxagw1	.840499	.0358902			.7730188	.9138699
e.shhlw1	.915276	.0276327			.8626881	.9710696

```
63 . estat stable, detail // moduli must be within unit circle
```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.05012234 + .450336 <i>i</i>	.453117
.05012234 - .450336 <i>i</i>	.453117
-.3457715 + .1593844 <i>i</i>	.380738
-.3457715 - .1593844 <i>i</i>	.380738
.3558765	.355876
.2503739	.250374
-.00747606 + .2098756 <i>i</i>	.210009
-.00747606 - .2098756 <i>i</i>	.210009
6.349e-17 + 2.399e-09 <i>i</i>	2.4e-09
6.349e-17 - 2.399e-09 <i>i</i>	2.4e-09
0	0

stability index = .4531167

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

```

> | observed
>
> Beta | crhtw1 crhtw2 crhtw3 illw2 illw3 B
> SIanx illw1 anxagw2 shhlw2 anxagw1 shhlw1
> -----
> |
> | observed |
> |
> | crhtw1 | 0 0 0 0 0
> | 0 -.4230516 | 0 0 0 .0034097
> | crhtw2 | .5727314 0 0 0 .04
> | 19468 .1766982 | 0 0 0
> | crhtw3 | -.0898639 .9919706 0 0 .01
> | 05544 0 | .0027372 0 -.0019059 0
> | illw2 | -.3535116 .3756829 0 0
> | 0 0 | 0 0 .003699
> | illw3 | -.737797 0 .5743192 .1209159 0
> | 0 0 | 0 0 0
> | BSianx | 0 0 -.7877405 .8831681 .4492664
> | 0 0 | .0221537 .0123384 .0195129 0
> | illw1 | 0 0 0 0 0 .0
> | 32428 0 | 0 0 0
> | anxagw2 | 0 0 0 6.996976 0
> | 0 0 | 0 -.1423695 .3056647 0
> | shhlw2 | 0 0 0 0 0
> | 0 0 | .331152 0 0 .6087452
> | anxagw1 | 0 0 0 0 0
> | 0 10.76641 | 0 0 0 0
> | shhlw1 | 0 0 0 0 0
> | 0 0 | 0 0 0 0
> -----
> -----

```

64 . estat gof

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

65 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-14228.58	68	28593.15	28857.78

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

```
66 . estat residuals
```

Residuals of observed variables

Mean residuals

		crhtw1	crhtw2	crhtw3	illw2	illw3	B
> SIanx	illw1	anxagw2	shhlw2	anxagw1	shhlw1	age	m
> edcow1	injselfr	fdferw1					
>							
>							
	raw	-0.000	0.000	0.000	0.000	0.000	
> 0.000	-0.000	0.000	0.000	-0.000	0.000	0.000	
> 0.000	0.000	0.000					
>							
>							

Covariance residuals

		crhtw1	crhtw2	crhtw3	illw2	illw3	B
> SIanx	illw1	anxagw2	shhlw2	anxagw1	shhlw1	age	m
> edcow1	injselfr	fdferw1					
>							
>							
	crhtw1	-0.011					
>							
>							
	crhtw2	-0.002	0.007				
>							
>							
	crhtw3	-0.004	0.008	0.010			
>							
>							
	illw2	0.002	0.008	0.012	0.005		
>							
>							
	illw3	0.001	-0.008	0.016	0.010	0.017	
>							
>							
	BSIanx	0.043	0.068	0.070	0.088	0.119	
> 0.289							
>							
	illw1	0.019	0.017	0.013	0.011	0.001	-
> 0.005	-0.001						
>							
	anxagw2	-0.057	0.714	0.736	0.230	1.614	

```

> 0.850      -0.360      -8.751
>
>          shhlw2 |      -1.471      1.528      1.844      1.612      4.228
> 6.873      0.698      53.000      32.395
>
>          anxagw1 |      1.190      0.961      0.852      1.391      -0.671
> 2.343      0.398      -9.208      151.577      8.644
>
>          shhlw1 |      0.405      0.670      0.097      0.109      -2.338
> 5.378      0.681      93.497      27.950      116.177      0.000
>
>          age |      -0.257      0.250      0.335      0.185      0.405
> 2.565      0.609      15.299      0.767      6.552      0.000      0.000
>
>          medcow1 |      0.032      -0.088      -0.149      -0.267      -0.309      -
> 0.202      -0.007      -1.127      -2.775      11.336      8.512      0.000
> 0.000
>          injselfr |      -0.005      0.001      0.002      0.023      0.025
> 0.039      0.015      0.137      0.292      0.156      0.404      0.000
> 0.000      0.000
>          fdferw1 |      0.452      0.535      1.425      1.635      0.439
> 5.791      0.188      50.707      154.453      2.022      0.000      0.000
> 0.000      0.000      0.000

```

```

>
>

```

```

67 . estat framework
(model contains no latent variables)

```

Endogenous variables on endogenous variables

```

>          | observed
>
>          Beta |      crhtw1      crhtw2      crhtw3      illw2      illw3      B
> SIanx      illw1 |      anxagw2      shhlw2      anxagw1      shhlw1
>
>
> observed |
>
>          crhtw1 |      0      0      0      0      0
> 0      -.4230516 |      0      0      0      .0034097
>          crhtw2 |      .5727314      0      0      0      0      .04
> 19468      .1766982 |      0      0      0      0
>          crhtw3 |      -.0898639      .9919706      0      0      0      .01
> 05544      0      .0027372      0      -.0019059      0
>          illw2 |      -.3535116      .3756829      0      0      0
> 0      0      0      0      0      .003699
>          illw3 |      -.737797      0      .5743192      .1209159      0

```

```

>      0      0      0      0      0      0
>      BSIanx |      0      0  -.7877405  .8831681  .4492664
>      0      0  .0221537  .0123384  .0195129      0
>      illw1 |      0      0      0      0      0      0
> 32428      0      0      0      0      0
>      anxagw2 |      0      0      0      6.996976      0
>      0      0      0  -.1423695  .3056647      0
>      shhlw2 |      0      0      0      0      0
>      0      0  .331152      0      0  .6087452
>      anxagw1 |      0      0      0      0      0
>      0  10.76641      0      0      0      0
>      shhlw1 |      0      0      0      0      0
>      0      0      0      0      0

```

```

>

```

Exogenous variables on endogenous variables

	observed			
Gamma	age	medcow1	injselfr	fdferw1
observed				
crhtw1	.01434	.0565672	.5227741	0
crhtw2	0	0	.4333504	.0025355
crhtw3	0	0	.1410717	0
illw2	.0107816	0	0	0
illw3	.0186095	0	0	0
BSIanx	0	0	1.614753	0
illw1	0	.027124	0	-.0015187
anxagw2	0	0	0	0
shhlw2	0	0	-7.445438	0
anxagw1	.3446171	0	10.48057	.2281941
shhlw1	.321681	0	0	.2281068

Covariances of error variables

```

>      | observed
>      Psi | e.crhtw1 e.crhtw2 e.crhtw3 e.illw2 e.illw3 e.B
> SIanx e.illw1 | e.anxagw2 e.shhlw2 e.anxagw1 e.shhlw1
>
> observed |
>      e.crhtw1 | .6536773
>      e.crhtw2 |      0 .294639
>

```

```

>      e.crhtw3 |          0          0      .072712
>      e.illw2  |          0          0          0      .647175
>      e.illw3  |          0          0          0          0      .8949426
>      e.BSIanx |          0          0          0          0          0      9.6
> 05829
>      e.illw1  |          0          0          0          0          0
> 0      .2119491
>      e.anxagw2 |          0          0          0          0          0
> 0      0      371.7592
>      e.shhlw2 |          0          0          0          0          0
> 0      0      0      1135.957
>      e.anxagw1 |          0          0          0          0          0
> 0      0      0          0      1038.28
>      e.shhlw1 |          0          0          0          0          0
> 0      0          0          0          0      1057.538

```

```

>

```

Intercepts of endogenous variables

```

>      | observed
>      alpha | crhtw1 crhtw2 crhtw3 illw2 illw3 B
> SIanx illw1 | anxagw2 shhlw2 anxagw1 shhlw1
>
>      _cons | -1.142329 -.7056334 -.1670712 -.2761528 -.2740257 6.0
> 06763 -.1271712 | 9.093708 30.51271 -12.57693 10.65525

```

```

>

```

Covariances of exogenous variables

	Phi	observed			
		age	medcow1	injselfr	fdferw1
observed					
	age	139.7112			
	medcow1	7.471185	17.23073		
	injselfr	1.161854	.4041238	.2147141	
	fdferw1	61.46068	20.39347	3.178719	1430.173

Means of exogenous variables

kappa	observed			
	age	medcow1	injselfr	fdferw1
mean	50.27072	2.657459	.6878453	37.43094

68 . estat teffects

Direct effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	-.4230516	.092152	-4.59	0.000	-.6036663	-.2424369
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.0034097	.0012275	2.78	0.005	.0010038	.0058157
age	.01434	.0038951	3.68	0.000	.0067057	.0219744
medcow1	.0565672	.0097016	5.83	0.000	.0375524	.075582
injselfr	.5227741	.1004426	5.20	0.000	.3259102	.719638
fdferw1	0	(no path)				
crhtw2 <-						
crhtw1	.5727314	.0411123	13.93	0.000	.4921529	.65331
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.0419468	.0157808	2.66	0.008	.011017	.0728766
illw1	.1766982	.0643332	2.75	0.006	.0506073	.302789
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	.4333504	.0823702	5.26	0.000	.2719078	.594793
fdferw1	.0025355	.0008171	3.10	0.002	.000934	.004137

crhtw3 <-						
crhtw1	-.0898639	.0316314	-2.84	0.004	-.1518603	-.0278675
crhtw2	.9919706	.0313763	31.62	0.000	.9304742	1.053467
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.0105544	.0062056	1.70	0.089	-.0016084	.0227172
illw1	0	(no path)				
anxagw2	.0027372	.0008869	3.09	0.002	.000999	.0044755
shhlw2	0	(no path)				
anxagw1	-.0019059	.0005889	-3.24	0.001	-.00306	-.0007517
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	.1410717	.0375975	3.75	0.000	.067382	.2147614
fdferw1	0	(no path)				
illw2 <-						
crhtw1	-.3535116	.0699703	-5.05	0.000	-.490651	-.2163722
crhtw2	.3756829	.0725654	5.18	0.000	.2334573	.5179084
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.003699	.0016613	2.23	0.026	.0004429	.0069552
age	.0107816	.0030499	3.54	0.000	.0048039	.0167593
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
illw3 <-						
crhtw1	-.737797	.0965482	-7.64	0.000	-.927028	-.548566
crhtw2	0	(no path)				
crhtw3	.5743192	.0915574	6.27	0.000	.39487	.7537684
illw2	.1209159	.0824504	1.47	0.143	-.0406838	.2825157
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	.0186095	.0046266	4.02	0.000	.0095416	.0276774
medcow1	0	(no path)				

injselfr	0	(no path)				
fdferw1	0	(no path)				
BSIanx <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	-.7877405	.4392482	-1.79	0.073	-1.648651	.0731701
illw2	.8831681	.2499683	3.53	0.000	.3932393	1.373097
illw3	.4492664	.2055843	2.19	0.029	.0463285	.8522043
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	.0221537	.0111378	1.99	0.047	.000324	.0439834
shhlw2	.0123384	.0045547	2.71	0.007	.0034115	.0212654
anxagw1	.0195129	.0065876	2.96	0.003	.0066014	.0324243
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	0	(no path)				
injselfr	1.614753	.5805306	2.78	0.005	.476934	2.752572
fdferw1	0	(no path)				
illw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	.032428	.0085815	3.78	0.000	.0156086	.0492474
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	0	(no path)				
medcow1	.027124	.0098555	2.75	0.006	.0078076	.0464403
injselfr	0	(no path)				
fdferw1	-.0015187	.0007061	-2.15	0.031	-.0029025	-.0001348
anxagw2 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	6.996976	1.563267	4.48	0.000	3.933029	10.06092
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	0	(no path)				
shhlw2	-.1423695	.043498	-3.27	0.001	-.227624	-.057115
anxagw1	.3056647	.0490436	6.23	0.000	.2095411	.4017884
shhlw1	0	(no path)				

age	0	(no path)				
medcow1	0	(no path)				
injselfr	0	(no path)				
fdferw1	0	(no path)				
shhlw2 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	0	(no path)				
anxagw2	.331152	.1218996	2.72	0.007	.092233	.5700709
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	.6087452	.0472081	12.89	0.000	.516219	.7012713
age	0	(no path)				
medcow1	0	(no path)				
injselfr	-7.445438	3.991246	-1.87	0.062	-15.26814	.3772613
fdferw1	0	(no path)				
anxagw1 <-						
crhtw1	0	(no path)				
crhtw2	0	(no path)				
crhtw3	0	(no path)				
illw2	0	(no path)				
illw3	0	(no path)				
BSIanx	0	(no path)				
illw1	10.76641	4.458828	2.41	0.016	2.027264	19.50555
anxagw2	0	(no path)				
shhlw2	0	(no path)				
anxagw1	0	(no path)				
shhlw1	0	(no path)				
age	.3446171	.1388457	2.48	0.013	.0724845	.6167497
medcow1	0	(no path)				
injselfr	10.48057	3.419896	3.06	0.002	3.777691	17.18344
fdferw1	.2281941	.0512083	4.46	0.000	.1278276	.3285606
shhlw1 <-						
age	.321681	.1517525	2.12	0.034	.0242516	.6191105
fdferw1	.2281068	.0464759	4.91	0.000	.1370157	.319198

Indirect effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
crhtw1	.0102077	.0012091	8.44	0.000	.0078378	.0125775
crhtw2	.001537	.0011043	1.39	0.164	-.0006274	.0037014
crhtw3	.0073325	.0060854	1.20	0.228	-.0045946	.0192596
illw2	-.0152699	.0035863	-4.26	0.000	-.0222989	-.0082408
illw3	-.0062189	.0028457	-2.19	0.029	-.0117964	-.0006413
BSIanx	-.0138422	.003707	-3.73	0.000	-.0211079	-.0065766
illw1	-.0081837	.0020578	-3.98	0.000	-.0122169	-.0041505
anxagw2	-.0003277	.0001566	-2.09	0.036	-.0006345	-.0000209
shhlw2	-.0001241	.000065	-1.91	0.056	-.0002516	3.30e-06
anxagw1	-.0003842	.0000929	-4.14	0.000	-.0005663	-.0002022
shhlw1	-.0000972	.0000285	-3.41	0.001	-.0001531	-.0000414
age	.0007992	.0006508	1.23	0.219	-.0004765	.0020748
medcow1	-.0111194	.0048218	-2.31	0.021	-.02057	-.0016687
injselfr	-.0184178	.0075098	-2.45	0.014	-.0331368	-.0036988
fdferw1	.0013267	.0004448	2.98	0.003	.0004549	.0021986
crhtw2 <-						
crhtw1	-.0296286	.0035096	-8.44	0.000	-.0365072	-.0227499
crhtw2	-.0044612	.0032053	-1.39	0.164	-.0107435	.001821
crhtw3	-.0212831	.0176632	-1.20	0.228	-.0559023	.0133361
illw2	.0443219	.0104095	4.26	0.000	.0239196	.0647242
illw3	.0180507	.00826	2.19	0.029	.0018614	.03424
BSIanx	-.0017687	.0003841	-4.60	0.000	-.0025215	-.0010158
illw1	-.2185412	.0497333	-4.39	0.000	-.3160166	-.1210658
anxagw2	.0009512	.0004544	2.09	0.036	.0000605	.0018418
shhlw2	.0003603	.0001887	1.91	0.056	-9.57e-06	.0007302
anxagw1	.0011153	.0002696	4.14	0.000	.0005868	.0016437
shhlw1	.0022351	.0006746	3.31	0.001	.000913	.0035572
age	.0097052	.002098	4.63	0.000	.0055932	.0138172
medcow1	.0295868	.0055242	5.36	0.000	.0187595	.0404142
injselfr	.3528683	.0690829	5.11	0.000	.2174683	.4882683
fdferw1	.0008166	.0002668	3.06	0.002	.0002936	.0013396
crhtw3 <-						
crhtw1	.5274592	.0408901	12.90	0.000	.4473161	.6076022
crhtw2	.001128	.0054319	0.21	0.835	-.0095183	.0117743
crhtw3	-.0273994	.0227392	-1.20	0.228	-.0719675	.0171686
illw2	.0753492	.0136623	5.52	0.000	.0485717	.1021268
illw3	.0232381	.0106338	2.19	0.029	.0023963	.0440799
BSIanx	.0411702	.0155976	2.64	0.008	.0105994	.0717409
illw1	-.0061052	.071999	-0.08	0.932	-.1472206	.1350102

anxagw2	.0011013	.0005771	1.91	0.056	-.0000299	.0022324
shhlw2	.0000917	.0002925	0.31	0.754	-.0004815	.000665
anxagw1	.0022348	.0003923	5.70	0.000	.0014659	.0030037
shhlw1	.0018266	.0005582	3.27	0.001	.0007327	.0029206
age	.0082209	.0017885	4.60	0.000	.0047154	.0117264
medcow1	.0245879	.004677	5.26	0.000	.0154213	.0337546
injselfr	.7415448	.0794426	9.33	0.000	.5858402	.8972493
fdferw1	.003019	.0008208	3.68	0.000	.0014103	.0046277
illw2 <-						
crhtw1	.2004259	.0153495	13.06	0.000	.1703414	.2305104
crhtw2	-.0022193	.0015946	-1.39	0.164	-.0053446	.0009059
crhtw3	-.0105878	.008787	-1.20	0.228	-.02781	.0066344
illw2	.0220491	.0051785	4.26	0.000	.0118994	.0321987
illw3	.0089798	.0041091	2.19	0.029	.000926	.0170336
BSIanx	.0199876	.0059207	3.38	0.001	.0083833	.031592
illw1	.136727	.0290135	4.71	0.000	.0798615	.1935925
anxagw2	.0004732	.0002261	2.09	0.036	.0000301	.0009162
shhlw2	.0001793	.0000939	1.91	0.056	-4.76e-06	.0003633
anxagw1	.0005548	.0001341	4.14	0.000	.0002919	.0008177
shhlw1	-.0003313	.0001899	-1.74	0.081	-.0007035	.0000409
age	-.0005159	.0013303	-0.39	0.698	-.0031233	.0020915
medcow1	-.0049511	.0029149	-1.70	0.089	-.0106642	.0007621
injselfr	.1170731	.0473637	2.47	0.013	.0242419	.2099043
fdferw1	.0016341	.0005564	2.94	0.003	.0005436	.0027246
illw3 <-						
crhtw1	.2252777	.0312778	7.20	0.000	.1639744	.2865809
crhtw2	.6143793	.0228194	26.92	0.000	.569654	.6591046
crhtw3	-.0224261	.0186118	-1.20	0.228	-.0589046	.0140524
illw2	.0572066	.0110133	5.19	0.000	.035621	.0787922
illw3	.0190201	.0087036	2.19	0.029	.0019614	.0360789
BSIanx	.042336	.0118043	3.59	0.000	.0192001	.0654719
illw1	.3311902	.0644967	5.13	0.000	.2047791	.4576014
anxagw2	.0025035	.0006943	3.61	0.000	.0011426	.0038644
shhlw2	.0001659	.000224	0.74	0.459	-.0002732	.0006051
anxagw1	.0005395	.0004494	1.20	0.230	-.0003412	.0014202
shhlw1	-.0009877	.0006807	-1.45	0.147	-.0023218	.0003464
age	-.0052069	.0024914	-2.09	0.037	-.0100901	-.0003238
medcow1	-.0200086	.0064482	-3.10	0.002	-.0326469	-.0073702
injselfr	.1489471	.0776198	1.92	0.055	-.003185	.3010792
fdferw1	.0009526	.0005953	1.60	0.110	-.0002141	.0021193
BSIanx <-						
crhtw1	-.7440692	.0881368	-8.44	0.000	-.9168142	-.5713241
crhtw2	-.1120358	.0804951	-1.39	0.164	-.2698033	.0457317
crhtw3	.2532529	.0415432	6.10	0.000	.1718298	.334676
illw2	.2298988	.0422285	5.44	0.000	.1471323	.3126652
illw3	.0040451	.001851	2.19	0.029	.0004171	.007673

BSIanx	.0090037	.0070786	1.27	0.203	-.0048701	.0228775
illw1	.5965345	.1499988	3.98	0.000	.3025422	.8905267
anxagw2	.001733	.0011941	1.45	0.147	-.0006074	.0040733
shhlw2	-.0032896	.001041	-3.16	0.002	-.0053299	-.0012494
anxagw1	.0084957	.0012217	6.95	0.000	.0061012	.0108901
shhlw1	.0070886	.0020766	3.41	0.001	.0030186	.0111585
age	.0216991	.0079245	2.74	0.006	.0061674	.0372308
medcow1	-.0259095	.0141339	-1.83	0.067	-.0536115	.0017924
injselfr	-.2722201	.444466	-0.61	0.540	-1.143357	.5989172
fdferw1	.0068183	.0023083	2.95	0.003	.0022942	.0113425
illw1 <-						
crhtw1	-.0241287	.0028581	-8.44	0.000	-.0297305	-.0185269
crhtw2	-.0036331	.0026103	-1.39	0.164	-.0087492	.001483
crhtw3	-.0173324	.0143844	-1.20	0.228	-.0455253	.0108606
illw2	.0360946	.0084772	4.26	0.000	.0194795	.0527096
illw3	.0147	.0067267	2.19	0.029	.0015159	.0278841
BSIanx	.000292	.0002295	1.27	0.203	-.0001579	.0007419
illw1	.0193444	.0048642	3.98	0.000	.0098108	.028878
anxagw2	.0007746	.0003701	2.09	0.036	.0000493	.0014999
shhlw2	.0002934	.0001537	1.91	0.056	-7.80e-06	.0005947
anxagw1	.0009083	.0002196	4.14	0.000	.0004779	.0013386
shhlw1	.0002299	.0000673	3.41	0.001	.0000979	.0003618
age	.0007037	.0003394	2.07	0.038	.0000384	.0013689
medcow1	-.0008402	.0004687	-1.79	0.073	-.0017589	.0000785
injselfr	.0435357	.0164427	2.65	0.008	.0113086	.0757628
fdferw1	.0002211	.0000885	2.50	0.012	.0000477	.0003945
anxagw2 <-						
crhtw1	-1.098741	.4910553	-2.24	0.025	-2.061192	-.1362905
crhtw2	2.484046	.5033439	4.94	0.000	1.49751	3.470582
crhtw3	-.1252184	.1039208	-1.20	0.228	-.3288995	.0784626
illw2	-.0542602	.0972757	-0.56	0.577	-.244917	.1363967
illw3	.1062007	.0485974	2.19	0.029	.0109515	.2014499
BSIanx	.2363869	.0511735	4.62	0.000	.1360887	.3366851
illw1	4.11714	1.339295	3.07	0.002	1.49217	6.74211
anxagw2	-.0394272	.0162215	-2.43	0.015	-.0712207	-.0076336
shhlw2	.0085299	.0019997	4.27	0.000	.0046106	.0124492
anxagw1	-.0072003	.0024604	-2.93	0.003	-.0120226	-.0023779
shhlw1	-.0595394	.0129935	-4.58	0.000	-.0850061	-.0340726
age	.1447772	.0553043	2.62	0.009	.0363827	.2531716
medcow1	.0495204	.0574098	0.86	0.388	-.0630006	.1620415
injselfr	4.990682	1.385205	3.60	0.000	2.27573	7.705633
fdferw1	.0545722	.0187036	2.92	0.004	.0179138	.0912306
shhlw2 <-						
crhtw1	-.3638503	.1626139	-2.24	0.025	-.6825677	-.0451329
crhtw2	.8225968	.1666833	4.94	0.000	.4959035	1.14929
crhtw3	-.0414663	.0344136	-1.20	0.228	-.1089157	.0259831

illw2	2.299094	.4930024	4.66	0.000	1.332827	3.265361
illw3	.0351686	.0160931	2.19	0.029	.0036266	.0667105
BSIanx	.07828	.0169462	4.62	0.000	.045066	.1114939
illw1	1.363399	.4435102	3.07	0.002	.4941351	2.232663
anxagw2	-.0130564	.0053718	-2.43	0.015	-.0235849	-.0025279
shhlw2	-.0443213	.0138509	-3.20	0.001	-.0714686	-.0171739
anxagw1	.0988371	.0156185	6.33	0.000	.0682253	.1294489
shhlw1	-.0197166	.0043028	-4.58	0.000	-.0281499	-.0112832
age	.243765	.0950774	2.56	0.010	.0574168	.4301132
medcow1	.0163988	.0192475	0.85	0.394	-.0213256	.0541231
injselfr	1.652674	.8093565	2.04	0.041	.0663644	3.238984
fdferw1	.1569306	.0305058	5.14	0.000	.0971404	.2167209
anxagw1 <-						
crhtw1	-.2597793	.0307715	-8.44	0.000	-.3200903	-.1994682
crhtw2	-.0391154	.0281035	-1.39	0.164	-.0941973	.0159664
crhtw3	-.1866074	.1548685	-1.20	0.228	-.4901441	.1169293
illw2	.3886086	.0912694	4.26	0.000	.2097238	.5674934
illw3	.1582661	.0724226	2.19	0.029	.0163205	.3002117
BSIanx	.3522767	.0943417	3.73	0.000	.1673703	.5371831
illw1	.20827	.0523696	3.98	0.000	.1056275	.3109125
anxagw2	.0083396	.0039842	2.09	0.036	.0005307	.0161485
shhlw2	.0031592	.0016547	1.91	0.056	-.0000839	.0064024
anxagw1	.0097787	.002364	4.14	0.000	.0051454	.014412
shhlw1	.0024749	.000725	3.41	0.001	.0010539	.0038958
age	.0075759	.0048001	1.58	0.115	-.0018321	.0169838
medcow1	.2829816	.1685685	1.68	0.093	-.0474066	.6133698
injselfr	.4687229	.2674282	1.75	0.080	-.0554268	.9928725
fdferw1	-.0139702	.0097452	-1.43	0.152	-.0330705	.0051301
shhlw1 <-						
age	0	(no path)				
fdferw1	0	(no path)				

Total effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
crhtw1	.0102077	.0012091	8.44	0.000	.0078378	.0125775
crhtw2	.001537	.0011043	1.39	0.164	-.0006274	.0037014
crhtw3	.0073325	.0060854	1.20	0.228	-.0045946	.0192596
illw2	-.0152699	.0035863	-4.26	0.000	-.0222989	-.0082408
illw3	-.0062189	.0028457	-2.19	0.029	-.0117964	-.0006413

BSIanx	-.0138422	.003707	-3.73	0.000	-.0211079	-.0065766
illw1	-.4312353	.0933031	-4.62	0.000	-.614106	-.2483646
anxagw2	-.0003277	.0001566	-2.09	0.036	-.0006345	-.0000209
shhlw2	-.0001241	.000065	-1.91	0.056	-.0002516	3.30e-06
anxagw1	-.0003842	.0000929	-4.14	0.000	-.0005663	-.0002022
shhlw1	.0033125	.0012391	2.67	0.008	.0008839	.0057411
age	.0151392	.0038574	3.92	0.000	.0075789	.0226994
medcow1	.0454478	.0092872	4.89	0.000	.0272452	.0636504
injselfr	.5043563	.1003296	5.03	0.000	.3077138	.7009987
fdferw1	.0013267	.0004448	2.98	0.003	.0004549	.0021986
crhtw2 <-						
crhtw1	.5431029	.0408713	13.29	0.000	.4629966	.6232091
crhtw2	-.0044612	.0032053	-1.39	0.164	-.0107435	.001821
crhtw3	-.0212831	.0176632	-1.20	0.228	-.0559023	.0133361
illw2	.0443219	.0104095	4.26	0.000	.0239196	.0647242
illw3	.0180507	.00826	2.19	0.029	.0018614	.03424
BSIanx	.0401782	.015673	2.56	0.010	.0094596	.0708967
illw1	-.041843	.0767405	-0.55	0.586	-.1922516	.1085655
anxagw2	.0009512	.0004544	2.09	0.036	.0000605	.0018418
shhlw2	.0003603	.0001887	1.91	0.056	-9.57e-06	.0007302
anxagw1	.0011153	.0002696	4.14	0.000	.0005868	.0016437
shhlw1	.0022351	.0006746	3.31	0.001	.000913	.0035572
age	.0097052	.002098	4.63	0.000	.0055932	.0138172
medcow1	.0295868	.0055242	5.36	0.000	.0187595	.0404142
injselfr	.7862187	.085372	9.21	0.000	.6188927	.9535447
fdferw1	.0033521	.0008116	4.13	0.000	.0017614	.0049428
crhtw3 <-						
crhtw1	.4375952	.0471453	9.28	0.000	.3451921	.5299984
crhtw2	.9930986	.0316428	31.38	0.000	.9310798	1.055117
crhtw3	-.0273994	.0227392	-1.20	0.228	-.0719675	.0171686
illw2	.0753492	.0136623	5.52	0.000	.0485717	.1021268
illw3	.0232381	.0106338	2.19	0.029	.0023963	.0440799
BSIanx	.0517245	.0192033	2.69	0.007	.0140867	.0893623
illw1	-.0061052	.071999	-0.08	0.932	-.1472206	.1350102
anxagw2	.0038385	.0010556	3.64	0.000	.0017696	.0059074
shhlw2	.0000917	.0002925	0.31	0.754	-.0004815	.000665
anxagw1	.0003289	.0006969	0.47	0.637	-.001037	.0016949
shhlw1	.0018266	.0005582	3.27	0.001	.0007327	.0029206
age	.0082209	.0017885	4.60	0.000	.0047154	.0117264
medcow1	.0245879	.004677	5.26	0.000	.0154213	.0337546
injselfr	.8826165	.0863356	10.22	0.000	.7134018	1.051831
fdferw1	.003019	.0008208	3.68	0.000	.0014103	.0046277
illw2 <-						
crhtw1	-.1530857	.0723703	-2.12	0.034	-.2949288	-.0112426
crhtw2	.3734635	.0741262	5.04	0.000	.2281788	.5187482
crhtw3	-.0105878	.008787	-1.20	0.228	-.02781	.0066344

illw2	.0220491	.0051785	4.26	0.000	.0118994	.0321987
illw3	.0089798	.0041091	2.19	0.029	.000926	.0170336
BSIanx	.0199876	.0059207	3.38	0.001	.0083833	.031592
illw1	.136727	.0290135	4.71	0.000	.0798615	.1935925
anxagw2	.0004732	.0002261	2.09	0.036	.0000301	.0009162
shhlw2	.0001793	.0000939	1.91	0.056	-4.76e-06	.0003633
anxagw1	.0005548	.0001341	4.14	0.000	.0002919	.0008177
shhlw1	.0033677	.0016983	1.98	0.047	.0000392	.0066963
age	.0102657	.0033894	3.03	0.002	.0036226	.0169088
medcow1	-.0049511	.0029149	-1.70	0.089	-.0106642	.0007621
injselfr	.1170731	.0473637	2.47	0.013	.0242419	.2099043
fdferw1	.0016341	.0005564	2.94	0.003	.0005436	.0027246
illw3 <-						
crhtw1	-.5125193	.1028374	-4.98	0.000	-.7140769	-.3109618
crhtw2	.6143793	.0228194	26.92	0.000	.569654	.6591046
crhtw3	.5518931	.0944433	5.84	0.000	.3667876	.7369985
illw2	.1781226	.0867958	2.05	0.040	.008006	.3482391
illw3	.0190201	.0087036	2.19	0.029	.0019614	.0360789
BSIanx	.042336	.0118043	3.59	0.000	.0192001	.0654719
illw1	.3311902	.0644967	5.13	0.000	.2047791	.4576014
anxagw2	.0025035	.0006943	3.61	0.000	.0011426	.0038644
shhlw2	.0001659	.000224	0.74	0.459	-.0002732	.0006051
anxagw1	.0005395	.0004494	1.20	0.230	-.0003412	.0014202
shhlw1	-.0009877	.0006807	-1.45	0.147	-.0023218	.0003464
age	.0134026	.0050342	2.66	0.008	.0035357	.0232695
medcow1	-.0200086	.0064482	-3.10	0.002	-.0326469	-.0073702
injselfr	.1489471	.0776198	1.92	0.055	-.003185	.3010792
fdferw1	.0009526	.0005953	1.60	0.110	-.0002141	.0021193
BSIanx <-						
crhtw1	-.7440692	.0881368	-8.44	0.000	-.9168142	-.5713241
crhtw2	-.1120358	.0804951	-1.39	0.164	-.2698033	.0457317
crhtw3	-.5344876	.4435799	-1.20	0.228	-1.403888	.3349131
illw2	1.113067	.2614172	4.26	0.000	.6006986	1.625435
illw3	.4533115	.2074353	2.19	0.029	.0467457	.8598772
BSIanx	.0090037	.0070786	1.27	0.203	-.0048701	.0228775
illw1	.5965345	.1499988	3.98	0.000	.3025422	.8905267
anxagw2	.0238867	.0114117	2.09	0.036	.0015201	.0462532
shhlw2	.0090488	.0047395	1.91	0.056	-.0002404	.018338
anxagw1	.0280085	.006771	4.14	0.000	.0147376	.0412795
shhlw1	.0070886	.0020766	3.41	0.001	.0030186	.0111585
age	.0216991	.0079245	2.74	0.006	.0061674	.0372308
medcow1	-.0259095	.0141339	-1.83	0.067	-.0536115	.0017924
injselfr	1.342533	.3350816	4.01	0.000	.685785	1.999281
fdferw1	.0068183	.0023083	2.95	0.003	.0022942	.0113425
illw1 <-						
crhtw1	-.0241287	.0028581	-8.44	0.000	-.0297305	-.0185269

crhtw2	-.0036331	.0026103	-1.39	0.164	-.0087492	.001483
crhtw3	-.0173324	.0143844	-1.20	0.228	-.0455253	.0108606
illw2	.0360946	.0084772	4.26	0.000	.0194795	.0527096
illw3	.0147	.0067267	2.19	0.029	.0015159	.0278841
BSIanx	.03272	.0087626	3.73	0.000	.0155456	.0498944
illw1	.0193444	.0048642	3.98	0.000	.0098108	.028878
anxagw2	.0007746	.0003701	2.09	0.036	.0000493	.0014999
shhlw2	.0002934	.0001537	1.91	0.056	-7.80e-06	.0005947
anxagw1	.0009083	.0002196	4.14	0.000	.0004779	.0013386
shhlw1	.0002299	.0000673	3.41	0.001	.0000979	.0003618
age	.0007037	.0003394	2.07	0.038	.0000384	.0013689
medcow1	.0262838	.0099547	2.64	0.008	.0067729	.0457946
injselfr	.0435357	.0164427	2.65	0.008	.0113086	.0757628
fdferw1	-.0012976	.0006912	-1.88	0.060	-.0026522	.0000571
anxagw2 <-						
crhtw1	-1.098741	.4910553	-2.24	0.025	-2.061192	-.1362905
crhtw2	2.484046	.5033439	4.94	0.000	1.49751	3.470582
crhtw3	-.1252184	.1039208	-1.20	0.228	-.3288995	.0784626
illw2	6.942715	1.48875	4.66	0.000	4.02482	9.860611
illw3	.1062007	.0485974	2.19	0.029	.0109515	.2014499
BSIanx	.2363869	.0511735	4.62	0.000	.1360887	.3366851
illw1	4.11714	1.339295	3.07	0.002	1.49217	6.74211
anxagw2	-.0394272	.0162215	-2.43	0.015	-.0712207	-.0076336
shhlw2	-.1338396	.0418265	-3.20	0.001	-.215818	-.0518612
anxagw1	.2984645	.0471642	6.33	0.000	.2060242	.3909047
shhlw1	-.0595394	.0129935	-4.58	0.000	-.0850061	-.0340726
age	.1447772	.0553043	2.62	0.009	.0363827	.2531716
medcow1	.0495204	.0574098	0.86	0.388	-.0630006	.1620415
injselfr	4.990682	1.385205	3.60	0.000	2.27573	7.705633
fdferw1	.0545722	.0187036	2.92	0.004	.0179138	.0912306
shhlw2 <-						
crhtw1	-.3638503	.1626139	-2.24	0.025	-.6825677	-.0451329
crhtw2	.8225968	.1666833	4.94	0.000	.4959035	1.14929
crhtw3	-.0414663	.0344136	-1.20	0.228	-.1089157	.0259831
illw2	2.299094	.4930024	4.66	0.000	1.332827	3.265361
illw3	.0351686	.0160931	2.19	0.029	.0036266	.0667105
BSIanx	.07828	.0169462	4.62	0.000	.045066	.1114939
illw1	1.363399	.4435102	3.07	0.002	.4941351	2.232663
anxagw2	.3180956	.1166012	2.73	0.006	.0895613	.5466298
shhlw2	-.0443213	.0138509	-3.20	0.001	-.0714686	-.0171739
anxagw1	.0988371	.0156185	6.33	0.000	.0682253	.1294489
shhlw1	.5890286	.0453876	12.98	0.000	.5000704	.6779867
age	.243765	.0950774	2.56	0.010	.0574168	.4301132
medcow1	.0163988	.0192475	0.85	0.394	-.0213256	.0541231
injselfr	-5.792764	3.722346	-1.56	0.120	-13.08843	1.502899
fdferw1	.1569306	.0305058	5.14	0.000	.0971404	.2167209

anxagw1 <-						
crhtw1	-.2597793	.0307715	-8.44	0.000	-.3200903	-.1994682
crhtw2	-.0391154	.0281035	-1.39	0.164	-.0941973	.0159664
crhtw3	-.1866074	.1548685	-1.20	0.228	-.4901441	.1169293
illw2	.3886086	.0912694	4.26	0.000	.2097238	.5674934
illw3	.1582661	.0724226	2.19	0.029	.0163205	.3002117
BSIanx	.3522767	.0943417	3.73	0.000	.1673703	.5371831
illw1	10.97468	4.505628	2.44	0.015	2.143808	19.80554
anxagw2	.0083396	.0039842	2.09	0.036	.0005307	.0161485
shhlw2	.0031592	.0016547	1.91	0.056	-.0000839	.0064024
anxagw1	.0097787	.002364	4.14	0.000	.0051454	.014412
shhlw1	.0024749	.000725	3.41	0.001	.0010539	.0038958
age	.3521929	.1400894	2.51	0.012	.0776227	.6267632
medcow1	.2829816	.1685685	1.68	0.093	-.0474066	.6133698
injselfr	10.94929	3.430823	3.19	0.001	4.224998	17.67358
fdferw1	.2142239	.0524639	4.08	0.000	.1113966	.3170512
shhlw1 <-						
age	.321681	.1517525	2.12	0.034	.0242516	.6191105
fdferw1	.2281068	.0464759	4.91	0.000	.1370157	.319198

```

69 .
70 .
71 .
72 .
73 .
74 . // Dose anxiety models first
75 . set more off

76 . // only indirect effect on anxiety no direct effect
77 . sem (age avgcumdosew1->radhlw1) ///
>   (airw1->airw2)(airw1->radhlw1)(airw2->radhlw2)(airw2->airw3) ///
>   (radhlw1->radhlw2)(radw2->radhlw2)(radhlw2->radhlw3)(radtlw1->radhlw3) /
> //
>   (radhlw3->BSIanx) (radchw1->radhlw1)(radchw1->airw2)(radtlw1->radhlw1) /
> //
>   (airw1->airw3)(radw1->airw2)(radw2->airw2)(radchw3->radhlw3) ///
>   (airw2 radtlw2 radw1->radhlw2)(BSIanx->airw1)(radtlw1->radhlw2) ///
>   ( radw2 radchw2 radchw3 radw3 radtlw2->radtlw3)(radw1->airw1) ///
>   (age->airw1) (radtlw1 radw2 -> BSIanx)(BSIanx->airw3) ///
>   (avgcumdosew2->avgcumdosew3) (avgcumdosew3 ->radtlw3) ///
>   (radw3 avgcumdosew1->avgcumdosew3) ///
>   (radchw2 radtlw2 radtlw3->radhlw3) ///
>   if gender==1, nocapslatent cov(e.radhlw1*e.airw2) cov(e.radhlw1*e.radtlw3) ///
>   nocapslatent nolog
(9 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **radhlw1 airw1 airw2 airw3 radtlw3 radhlw2 radhlw3 BSIanx
avgcumdosew3**

Exogenous variables

Observed: **age avgcumdosew1 radw1 radw2 radw3 radchw1 radchw2 radchw3
radtlw1 radtlw2 avgcumdosew2**

Structural equation model Number of obs = **330**
Estimation method = **ml**
Log likelihood = **-24903.287**

> _____		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> _____							
Structural							
radhlw1 <-							
airw1		.4228654	.0478043	8.85	0.000	.3291707	.51
> 65601							
age		.4554276	.1343542	3.39	0.001	.1920983	.7
> 18757							
avgcumdosew1		2.543521	.9737034	2.61	0.009	.6350972	4.4
> 51944							
radchw1		-.3068989	.0558286	-5.50	0.000	-.4163209	-.19
> 74769							
radtlw1		.4944257	.054122	9.14	0.000	.3883485	.60
> 05029							
_cons		-13.91644	6.943247	-2.00	0.045	-27.52495	-.30
> 79265							
> _____							
airw1 <-							
BSIanx		-2.071441	.7686767	-2.69	0.007	-3.578019	-.5
> 64862							
age		1.028223	.1574305	6.53	0.000	.7196649	1.3
> 36781							
radw1		.1880204	.0505414	3.72	0.000	.0889611	.28
> 70797							
_cons		17.36313	9.051786	1.92	0.055	-.3780406	35.
> 10431							
> _____							

```

    airw2 <-
    airw1 | .3615966 .0435193 8.31 0.000 .2763003 .44
> 68929
    radw1 | -.4293954 .0589581 -7.28 0.000 -.5449512 -.31
> 38396
    radw2 | .2439807 .0645514 3.78 0.000 .1174624 .3
> 70499
    radchw1 | .1954475 .0468291 4.17 0.000 .1036642 .28
> 72308
    _cons | 2.132664 4.094897 0.52 0.602 -5.893186 10.
> 15852
-----
    airw3 <-
    airw1 | .1174887 .0392706 2.99 0.003 .0405198 .19
> 44576
    airw2 | .7393925 .0444641 16.63 0.000 .6522445 .82
> 65406
    BSIanx | 1.35413 .4837669 2.80 0.005 .4059641 2.3
> 02295
    _cons | -.261708 4.455641 -0.06 0.953 -8.994605 8.4
> 71188
-----
    radtlw3 <-
    avgcumdosew3 | .7521122 .2536269 2.97 0.003 .2550127 1.2
> 49212
    radw2 | -.0706836 .0376707 -1.88 0.061 -.1445168 .00
> 31496
    radw3 | .1024029 .0378703 2.70 0.007 .0281784 .17
> 66274
    radchw2 | -.4123534 .0435438 -9.47 0.000 -.4976978 -.3
> 27009
    radchw3 | .4533292 .043421 10.44 0.000 .3682256 .53
> 84329
    radtlw2 | .9310556 .0185054 50.31 0.000 .8947857 .96
> 73254
    _cons | .5636131 1.19656 0.47 0.638 -1.781602 2.9
> 08828
-----
    radhlw2 <-
    radhlw1 | .8248135 .0238474 34.59 0.000 .7780735 .87
> 15536
    airw2 | .0668644 .0267991 2.50 0.013 .0143392 .11
> 93897
    radw1 | -.0319682 .031425 -1.02 0.309 -.0935601 .02
> 96237
    radw2 | .1357152 .034859 3.89 0.000 .0673928 .20

```

```

> 40377      radtlw1 |  -.4173351  .0391168  -10.67  0.000  -.4940026  -.34
> 06676      radtlw2 |   .4445898  .0379539   11.71  0.000   .3702015   .51
> 89781      _cons  |   2.99564   1.871057    1.60  0.109  -.6715646   6.6
> 62844
+-----+-----+
> -----
>      radhlw3 <-
>      radtlw3 |   .27254   .0511663    5.33  0.000   .1722559   .37
> 28242      radhlw2 |   .9570518  .0156366   61.21  0.000   .9264046   .98
> 76991      radchw2 |  -.1686358  .0454909   -3.71  0.000  -.2577962  -.07
> 94753      radchw3 |   .1942869  .0466714    4.16  0.000   .1028126   .28
> 57613      radtlw1 |  -.0690666  .0224019   -3.08  0.002  -.1129736  -.02
> 51596      radtlw2 |  -.1981681  .0556353   -3.56  0.000  -.3072112  -.0
> 89125      _cons  |   1.898926  1.163623    1.63  0.103  -.3817335   4.1
> 79585
+-----+-----+
> -----
>      BSIanx <-
>      radhlw3 |   .0261439  .0044016    5.94  0.000   .0175169   .03
> 47708      radw2  |   .0189538  .0044894    4.22  0.000   .0101547   .0
> 27753      radtlw1 |  -.0133454  .0038887   -3.43  0.001  -.0209671  -.00
> 57236      _cons  |   6.294749  .3232981   19.47  0.000   5.661096   6.9
> 28401
+-----+-----+
> -----
>      avgcumdosew3 <-
>      avgcumdosew1 |  -.2872682  .0188352  -15.25  0.000  -.3241846  -.25
> 03518      radw3  |   .0006231  .0003146    1.98  0.048   6.51e-06   .00
> 12396      avgcumdosew2 |   1.314571  .0153886   85.43  0.000   1.28441   1.3
> 44732      _cons  |   .0729829  .016364    4.46  0.000   .0409101   .10
> 50557
+-----+-----+
> -----
Variance |

```

```

      e.radhlw1 |      852.63   66.74083                731.3607   994
> .0074
      e.airw1 |     1163.113   92.01613                996.0517   135
> 8.195
      e.airw2 |     790.6768   61.59641                678.7151   921
> .1079
      e.airw3 |     592.9169   46.15851                509.0118   690
> .6528
      e.radt1w3 |     96.34638    7.505237                 82.7043   112
> .2387
      e.radhlw2 |     204.514    15.92323                175.5696   238
> .2301
      e.radhlw3 |     87.06576    6.778275                74.74452   101
> .4181
      e.BSIanx |     6.389755    .4991123                5.482715    7.4
> 46851
      e.avgcumdosew3 |    .0331878    .0025837                .0284913    .03
> 86585
+-----+
> -----
Covariance
      e.radhlw1
      e.airw2 |     200.7483   46.16891     4.35   0.000    110.2589   291
> .2377
      e.radt1w3 |    -54.65789   15.77238     -3.47   0.001    -85.5712   -23.
> 74458
+-----+
> -----
LR test of model vs. saturated: chi2(94) =    111.41, Prob > chi2 = 0.1062

```

78 . estat mindices

Modification indices

	MI	df	P>MI	EPC	Standard EPC
Structural					
radhlw1 <- radtlw3	4.704	1	0.03	-.1536315	-.1423716
radtlw2	5.153	1	0.02	-.1599648	-.1476681
airw2 <- radtlw3	3.930	1	0.05	.0960899	.1038364
radchw3	8.356	1	0.00	.1800773	.1870333
airw3 <- radhlw1	7.996	1	0.00	.1168555	.1234728

radhlw2	7.571	1	0.01	.1202221	.1217613
radhlw3	6.720	1	0.01	.1124795	.1141494

EPC = expected parameter change

```

79 .
80 .
81 .
82 . // direct effect from dose to anxiety for females
83 .
84 . set more off

85 . sem(age avgcumdosew1->BSIanx)(age ->radhlw1)(age radhlw1->BSIanx)(kzchorn->r
> adhlw1) ///
> (radhlw1->radhlw2)(radhlw1->airw1)(radhlw2->radhlw3)(radhlw3->BSIanx) ///
> (radchw1 injselfr->radhlw1) (avgcumdosew1->radhlw2)(radchw1->airw1)(airw1
> kzchorn ->airw2) ///
> (radchw1 kzchorn ->radchw2)(radchw1 injselfr->radhlw2)(radchw2->radhlw2)
> (radchw1->radhlw3) ///
> (radhlw1->radhlw3)(radchw1 ->BSIanx)(age kzchorn ->airw2)(airw2->radhlw2
> ) ///
> (airw1 radchw2 radchw3 kzchorn radtlw3->radhlw3)(avgcumdosew1->avgcumdos
> ew2) ///
> (avgcumdosew1->avgcumdosew3)(avgcumdosew2->avgcumdosew3) (airw2->radhlw2
> ) ///
> (avgcumdosew1->carcin)(carcin->radhlw2)(carcin injselfr ->BSIanx) ///
> if gender==2, nocapslatent
(2 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **BSIanx radhlw1 radhlw2 airw1 radhlw3 airw2 radchw2 avgcumdosew2
avgcumdosew3 carcin**

Exogenous variables

Observed: **age avgcumdosew1 kzchorn radchw1 injselfr radchw3 radtlw3**

Fitting target model:

```

Iteration 0: log likelihood = -21799.747
Iteration 1: log likelihood = -21799.747

```

```

Structural equation model          Number of obs      =      361
Estimation method = ml
Log likelihood      = -21799.747

```

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> Structural							
BSIanx <-							
> 13198	radhlw1	-.0261864	.0066269	-3.95	0.000	-.0391749	-.0
> 53684	radhlw3	.0202743	.0077012	2.63	0.008	.0051802	.03
> 51556	carcin	.0238604	.005763	4.14	0.000	.0125652	.03
> 50816	age	.0355411	.015072	2.36	0.018	.0060006	.06
> 64755	avgcumdosew1	1.051125	.3130825	3.36	0.001	.4374942	1.6
> 47625	radchw1	-.0147116	.0050761	-2.90	0.004	-.0246607	-.00
> 36819	injselfr	1.184326	.4349537	2.72	0.006	.3318322	2.0
> 17536	_cons	5.548545	.8005203	6.93	0.000	3.979554	7.1
> radhlw1 <-							
> 95411	age	.3600175	.1426167	2.52	0.012	.0804938	.63
> 79465	kzchorn	.2142264	.0631237	3.39	0.001	.0905063	.33
> 23634	radchw1	.3958005	.0441655	8.96	0.000	.3092376	.48
> 00607	injselfr	16.75712	3.698516	4.53	0.000	9.50816	24.
> 65286	_cons	-13.65819	7.97131	-1.71	0.087	-29.28167	1.9
> radhlw2 <-							
> 46911	radhlw1	.6557659	.0300644	21.81	0.000	.5968408	.71
> 00319	airw2	.048711	.0261846	1.86	0.063	-.0026099	.10
> 39479	radchw2	.3593586	.0408785	8.79	0.000	.2792381	.4
> 25218	carcin	.0922507	.0307511	3.00	0.003	.0319797	.15

avgcumdosew1	3.546406	1.702409	2.08	0.037	.2097453	6.8
> 83067						
radchw1	-.2772349	.0389849	-7.11	0.000	-.3536438	-.20
> 08259						
injselfr	13.59271	2.228811	6.10	0.000	9.224324	17
> .9611						
_cons	-1.165528	2.897474	-0.40	0.687	-6.844473	4.5
> 13417						
airw1 <-						
radhlw1	.2091065	.05076	4.12	0.000	.1096187	.30
> 85944						
radchw1	.1653757	.050728	3.26	0.001	.0659506	.26
> 48007						
_cons	44.1344	3.565339	12.38	0.000	37.14647	51.
> 12234						
radhlw3 <-						
radhlw1	-.0749775	.0309992	-2.42	0.016	-.1357348	-.01
> 42202						
radhlw2	.954982	.0339465	28.13	0.000	.8884481	1.0
> 21516						
airw1	.037302	.0194978	1.91	0.056	-.0009129	.07
> 55169						
radchw2	-.1146538	.0560404	-2.05	0.041	-.224491	-.00
> 48167						
kzchorn	.1004683	.0261373	3.84	0.000	.0492402	.15
> 16964						
radchw1	-.0692966	.0285057	-2.43	0.015	-.1251667	-.01
> 34265						
radchw3	.1428316	.0526619	2.71	0.007	.0396163	.2
> 46047						
radtlw3	.0479939	.025144	1.91	0.056	-.0012875	.09
> 72753						
_cons	-2.656222	2.252076	-1.18	0.238	-7.07021	1.7
> 57766						
airw2 <-						
airw1	.3633257	.0532384	6.82	0.000	.2589803	.46
> 76711						
age	.3040449	.1559757	1.95	0.051	-.0016618	.60
> 97516						
kzchorn	.2288237	.0684717	3.34	0.001	.0946217	.36
> 30257						
_cons	-21.59102	9.064738	-2.38	0.017	-39.35758	-3.8
> 24458						

> -----							
radchw2 <-							
kzchorn	.2587261	.0457517	5.65	0.000	.1690543	.34	
> 83979							
radchw1	.6143786	.0331247	18.55	0.000	.5494555	.67	
> 93018							
_cons	4.766612	4.085024	1.17	0.243	-3.239887	12.	
> 77311							
> -----							
avgcumdosew2 <-							
avgcumdosew1	2.188851	.0650407	33.65	0.000	2.061373	2.3	
> 16328							
_cons	.1616736	.0419261	3.86	0.000	.0795	.24	
> 38472							
> -----							
avgcumdosew3 <-							
avgcumdosew2	1.324066	.022628	58.51	0.000	1.279716	1.3	
> 68416							
avgcumdosew1	-.20321	.0568778	-3.57	0.000	-.3146884	-.09	
> 17316							
_cons	.0841635	.0183928	4.58	0.000	.0481142	.12	
> 02128							
> -----							
carcin <-							
avgcumdosew1	7.099894	2.991775	2.37	0.018	1.236124	12.	
> 96367							
_cons	66.29067	1.928535	34.37	0.000	62.51081	70.	
> 07053							
> -----							
Variance							
e.BSIanx	10.09239	.7511994			8.72242	11.	
> 67752							
e.radhlw1	946.5787	70.45602			818.0877	109	
> 5.251							
e.radhlw2	307.5913	22.89472			265.8381	355	
> .9024							
e.airw1	1024.662	76.26796			885.572	118	
> 5.599							
e.radhlw3	138.9539	10.34266			120.092	160	
> .7784							
e.airw2	1174.033	87.38595			1014.667	135	
> 8.429							
e.radchw2	543.172	40.42953			469.4404	62	
> 8.484							

```

    e.avgcumdosew2 | .4618044 .0343732 .3991179 .53
> 43366
    e.avgcumdosew3 | .0853605 .0063536 .0737734 .09
> 87675
    e.carcin | 977.1131 72.72877 844.4773 113
> 0.581

```

```

> _____
LR test of model vs. saturated: chi2(78) = 850.81, Prob > chi2 = 0.0000

```

86 . sem,standardize

```

Structural equation model          Number of obs      =      361
Estimation method = ml
Log likelihood      = -21799.747

```

```

> _____
Standardized      Coef.      OIM      z      P>|z|      [95% Conf. Inte
> rval]
> _____
Structural
    BSIanx <-
        radhlw1 | -.2719373 .0684665 -3.97 0.000 -.4061293 -.13
> 77454
        radhlw3 | .1915193 .0731503 2.62 0.009 .0481474 .33
> 48912
        carcin | .2098283 .0499863 4.20 0.000 .1118569 .30
> 77997
        age | .1173014 .0494397 2.37 0.018 .0204013 .21
> 42015
        avgcumdosew1 | .1613602 .0471214 3.42 0.001 .069004 .25
> 37164
        radchw1 | -.1528717 .0519258 -2.94 0.003 -.2546444 -.05
> 10991
        injselfr | .1529413 .0554082 2.76 0.006 .0443433 .26
> 15394
        _cons | 1.548928 .2408439 6.43 0.000 1.076883 2.0
> 20974
> _____
    radhlw1 <-
        age | .1144204 .0449576 2.55 0.011 .0263052 .20
> 25356
        kzchorn | .1551998 .0450563 3.44 0.001 .0668911 .24
> 35086
        radchw1 | .3960505 .0394233 10.05 0.000 .3187824 .47

```

```

> 33187      injselfr |   .2083821   .0447762    4.65   0.000   .1206224   .29
> 61418      _cons  |  -.367158   .2084474   -1.76   0.078   -.7757074   .04
> 13915
+-----+-----+
> -----
>      radhlw2 <-
>      radhlw1 |   .7161781   .0266132   26.91   0.000   .6640172   .76
> 83391      airw2  |   .0536435   .0290464    1.85   0.065   -.0032865   .11
> 05735      radchw2 |   .3573346   .0401143    8.91   0.000   .278712    .43
> 59572      carcin |   .085317    .028877    2.95   0.003   .0287191   .14
> 19149      avgcumdosew1 | .0572546   .0274443    2.09   0.037   .0034647   .11
> 10445      radchw1 |  -.3029663   .041498    -7.30   0.000   -.3843008  -.22
> 16317      injselfr |   .1846033   .0303988    6.07   0.000   .1250229   .24
> 41838      _cons  |  -.034218    .084614    -0.40   0.686   -.2000585   .13
> 16225
+-----+-----+
> -----
>      airw1 <-
>      radhlw1 |   .227772    .0541316    4.21   0.000   .1216759   .3
> 33868      radchw1 |   .1802514   .0542552    3.32   0.001   .0739132   .28
> 65896      _cons  |   1.292319   .131331    9.84   0.000   1.034915   1.5
> 49723
+-----+-----+
> -----
>      radhlw3 <-
>      radhlw1 |  -.0824245    .040394   -2.04   0.041   -.1615953  -.00
> 32538      radhlw2 |   .9612773   .0302278   31.80   0.000   .9020319   1.0
> 20523      airw1  |   .0376465   .0198217    1.90   0.058   -.0012033   .07
> 64964      radchw2 |  -.1147597   .0571464   -2.01   0.045   -.2267646  -.00
> 27547      kzchorn |   .0800153   .0209465    3.82   0.000   .0389608   .12
> 10698      radchw1 |  -.0762275   .0313936   -2.43   0.015   -.1377579  -.01
> 46971      radchw3 |   .146312    .0539738    2.71   0.007   .0405254   .25

```

```

> 20986      radtlw3 |   .0494314   .0260589    1.90    0.058   -.0016431   .10
> 05059      _cons |  -.0784964   .0659548   -1.19    0.234   -.2077654   .05
> 07725
-----
> _____
>      airw2 <-
>      airw1 |   .3307846   .0459595    7.20    0.000   .2407056   .42
> 08637      age |   .0958296   .0488702    1.96    0.050   .0000458   .19
> 16133      kzchorn |   .1643998   .0483365    3.40    0.001   .0696619   .25
> 91377      _cons |  -.575592    .2343245   -2.46    0.014   -1.034859  -.11
> 63245
-----
> _____
>      radchw2 <-
>      kzchorn |   .2058655   .0354474    5.81    0.000   .1363899   .2
> 75341      radchw1 |   .6752046   .0242021   27.90    0.000   .6277694   .72
> 26399      _cons |   .1407325   .1232662    1.14    0.254   -.1008648   .38
> 23299
-----
> _____
>      avgcumdosew2 <-
>      avgcumdosew1 |   .8708017   .0100236   86.87    0.000   .8511558   .89
> 04477      _cons |   .116964    .0318039    3.68    0.000   .0546295   .17
> 92985
-----
> _____
>      avgcumdosew3 <-
>      avgcumdosew2 |   1.040947   .0152671   68.18    0.000   1.011025   1.
> 07087      avgcumdosew1 |  -.0635576    .01785   -3.56    0.000   -.0985429  -.02
> 85723      _cons |   .0478692   .0107553    4.45    0.000   .0267893   .06
> 89491
-----
> _____
>      carcin <-
>      avgcumdosew1 |   .123939    .0516237    2.40    0.016   .0227584   .22
> 51196      _cons |   2.104353   .1036823   20.30    0.000   1.901139   2.3
> 07566
-----

```

```

> -----
Variance
      e.BSIanx |      .7864993      .0350315                .7207505      .85
> 82458
      e.radhlw1 |      .6840314      .0371394                .6149789      .76
> 08375
      e.radhlw2 |      .2651171      .0227458                .2240828      .31
> 36657
      e.airw1   |      .8785481      .0317348                .8184999      .94
> 30018
      e.radhlw3 |      .1213505      .0114181                .1009137      .14
> 59261
      e.airw2   |      .8343792      .0348255                .7688397      .90
> 55056
      e.radchw2 |      .4734857      .0310418                .4163917      .53
> 84082
      e.avgcumdosew2 |      .2417043      .0174572                .2098003      .
> 27846
      e.avgcumdosew3 |      .0276135      .0024664                .023179      .03
> 28965
      e.carcin  |      .9846391      .0127964                .9598754      1.0
> 10042

```

```

> -----
LR test of model vs. saturated: chi2(78) =      850.81, Prob > chi2 = 0.0000

```

```

87 . estat stable, detail // moduli must be within unit circle

```

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
-.00005004	.00005
-.00001538 + .00004757 <i>i</i>	.00005
-.00001538 - .00004757 <i>i</i>	.00005
.00004041 + .00002931 <i>i</i>	.00005
.00004041 - .00002931 <i>i</i>	.00005
0	0
0	0
0	0
0	0
0	0

stability index = .00005

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

		observed					
		Beta	BSIanx	radhlw1	radhlw2	airw1	radhlw3
airw2	radchw2		avgcumd~2	avgcum~w3	carcin		
		observed					
	BSIanx	0	-.0261864	0	0	.0202743	
0	0	0	0	.0238604			
	radhlw1	0	0	0	0	0	
0	0	0	0	0			
	radhlw2	0	.6557659	0	0	0	.0
48711	.3593586	0	0	.0922507			
	airw1	0	.2091065	0	0	0	
0	0	0	0	0			
	radhlw3	0	-.0749775	.954982	.037302	0	
0	-.1146538	0	0	0			
	airw2	0	0	0	.3633257	0	
0	0	0	0	0			
	radchw2	0	0	0	0	0	
0	0	0	0	0			
	avgcumdosew2	0	0	0	0	0	
0	0	0	0	0			
	avgcumdosew3	0	0	0	0	0	
0	0	1.324066	0	0			
	carcin	0	0	0	0	0	
0	0	0	0	0			

88 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(78)	850.808	model vs. saturated
p > chi2	0.000	
chi2_bs(115)	4537.410	baseline vs. saturated
p > chi2	0.000	

89 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	361	.	-21799.75	57	43713.49	43935.16

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

90 . estat residuals

Residuals of observed variables

Mean residuals

		BSIanx	radhlw1	radhlw2	airw1	radhlw3	
> airw2	radchw2	avgcumd~2	avgcum~w3	carcin	age	avgcumd~1	k
> zchorn	radchw1	injselfr	radchw3	radtlw3			
>							
>							
	raw	-0.000	0.000	0.000	-0.000	0.000	
> 0.000	0.000	0.000	0.000	0.000	0.000	0.000	
> 0.000	0.000	0.000	0.000	0.000			
>							
>							

Covariance residuals

		BSIanx	radhlw1	radhlw2	airw1	radhlw3	
> airw2	radchw2	avgcumd~2	avgcum~w3	carcin	age	avgcumd~1	k
> zchorn	radchw1	injselfr	radchw3	radtlw3			
>							
>							
	BSIanx	0.500					
>							
>							
	radhlw1	-0.270	0.000				
>							
>							
	radhlw2	7.248	-40.928	-14.276			
>							
>							
	airw1	-9.093	-0.000	-21.951	-0.000		
>							
>							
	radhlw3	10.774	-48.520	30.110	-26.037	50.768	

```

>
>
>      airw2 |      -0.145      106.149      144.059      6.237      174.901
> 4.532
>
>      radchw2 |      7.523     -136.517     -44.993     -63.500      55.587      2
> 7.763      0.000
>
>      avgcumdosew2 |      0.055     -0.883      0.259     -1.258      1.331      -
> 0.943      3.463     -0.000
>
>      avgcumdosew3 |      0.063     -1.817     -0.255     -1.673      1.357      -
> 1.948      4.918     -0.000     -0.000
>
>      carcin |      5.915      47.035      124.204      93.008      226.640      12
> 3.905      225.996      0.548      1.142     -0.000
>
>      age |      1.531     -0.000      5.689      5.886      19.472
> 2.139     -11.201      0.239      0.036      47.636      0.000
>
>      avgcumdosew1 |      0.019     -0.389     -0.036     -0.419      0.425      -
> 0.370      0.659     -0.000     -0.000     -0.000      0.000      0.000
>
>      kzchorn |      10.697      0.000      69.886      19.437      67.465
> 7.062      0.000      1.120      2.076      438.564      0.000      0.000
> 0.000
>      radchw1 |      0.854     -0.000      1.611     -0.000      1.539     -3
> 2.255      0.000      1.329      1.199      34.499      0.000      0.000
> 0.000      0.000
>      injselfr |      0.061      0.000      0.797      2.724      1.647
> 3.325      1.471     -0.003     -0.010      1.153      0.000      0.000
> 0.000      0.000      0.000
>      radchw3 |      10.045     -180.794      127.646     -73.417      71.543      9
> 3.096      533.548      1.612      2.198      258.903      0.000      0.000
> 0.000      0.000      0.000      0.000
>      radtlw3 |      2.684      15.342      233.209     -79.610      183.998      21
> 9.621      301.708      0.005      0.113      165.940      0.000      0.000
> 0.000      0.000      0.000      0.000      0.000
>
>
>

```

```

91 . estat framework
(model contains no latent variables)

```

Endogenous variables on endogenous variables

		observed					
		Beta	BSIanx	radhlw1	radhlw2	airw1	radhlw3
airw2	radchw2		avgcumd~2	avgcum~w3	carcin		
observed							
	BSIanx	0	-.0261864	0	0	.0202743	
0	0	0	0	.0238604			
	radhlw1	0	0	0	0	0	0
0	0	0	0	0	0		
	radhlw2	0	.6557659	0	0	0	.0
48711	.3593586	0	0	.0922507			
	airw1	0	.2091065	0	0	0	0
0	0	0	0	0			
	radhlw3	0	-.0749775	.954982	.037302		0
0	-.1146538	0	0	0			
	airw2	0	0	0	.3633257		0
0	0	0	0	0			
	radchw2	0	0	0	0	0	0
0	0	0	0	0			
	avgcumdosew2	0	0	0	0	0	0
0	0	0	0	0			
	avgcumdosew3	0	0	0	0	0	0
0	0	1.324066	0	0			
	carcin	0	0	0	0	0	0
0	0	0	0	0			

Exogenous variables on endogenous variables

```

> | observed
>
> Gamma | age avgcumd~1 kzchorn radchw1 injselfr ra
> dchw3 radtlw3
+-----+
> |
> | observed |
> |
> | BSIanx | .0355411 1.051125 0 -.0147116 1.184326
> | 0 | 0
> | radhlw1 | .3600175 0 .2142264 .3958005 16.75712
> | 0 | 0
> | radhlw2 | 0 3.546406 0 -.2772349 13.59271
> | 0 | 0
> | airw1 | 0 0 0 .1653757 0
> | 0 | 0
> | radhlw3 | 0 0 .1004683 -.0692966 0 .14
> 28316 .0479939
> | airw2 | .3040449 0 .2288237 0 0
> | 0 | 0
> | radchw2 | 0 0 .2587261 .6143786 0
> | 0 | 0
> | avgcumdosew2 | 0 2.188851 0 0 0
> | 0 | 0
> | avgcumdosew3 | 0 -.20321 0 0 0
> | 0 | 0
> | carcin | 0 7.099894 0 0 0
> | 0 | 0
+-----+
>

```

Covariances of error variables

```

> | observed
>
> Psi | e.BSIanx e.radhlw1 e.radhlw2 e.airw1 e.radhlw3 e.
> airw2 e.radchw2 e.avgc~2 e.avgc~w3 e.carcin
+-----+
> |
> | observed |
> |
> | e.BSIanx | 10.09239
> | e.radhlw1 | 0 946.5787
> | e.radhlw2 | 0 0 307.5913
> | e.airw1 | 0 0 0 1024.662
>

```

```

      e.radhlw3 |          0          0          0          0 138.9539
>
      e.airw2   |          0          0          0          0      0 117
> 4.033
      e.radchw2 |          0          0          0          0      0
> 0 543.172
      e.avgcumdo~2 |          0          0          0          0      0
> 0 0 .4618044
      e.avgcumd~w3 |          0          0          0          0      0
> 0 0 0 .0853605
      e.carcin  |          0          0          0          0      0
> 0 0 0 0 977.1131

```

```

>

```

Intercepts of endogenous variables

```

      | observed
>
      alpha |      BSIanx      radhlw1      radhlw2      airw1      radhlw3
> airw2      radchw2 |      avgcumd~2      avgcum~w3      carcin
      |-----|-----|-----|-----|-----|
>
      _cons | 5.548545 -13.65819 -1.165528 44.1344 -2.656222 -21.
> 59102 4.766612 | .1616736 .0841635 66.29067
      |-----|-----|-----|-----|-----|
>

```

Covariances of exogenous variables

```

      | observed
>
      Phi |      age      avgcumd~1      kzchorn      radchw1      injselfr      ra
> dchw3      radtlw3 |
      |-----|-----|-----|-----|-----|-----|
>
      observed |
>
      age | 139.7785
>
      avgcumdosew1 | 1.189363 .3023987
>
      kzchorn | 62.06901 .8829101 726.3017
>
      radchw1 | 60.33594 1.125833 101.8761 1385.572
>
      injselfr | 1.185573 .0279768 3.326931 1.990807 .2139947
>
      radchw3 | 38.94636 .9354725 283.5761 789.8947 4.346514 120

```

```

> 1.546
      radtlw3 | 62.22437   1.401124   332.4469   544.6461   3.966068   801
> .5236  1214.681
      _____
> _____

```

Means of exogenous variables

```

      _____ | observed
>
      kappa |
> dchw3     radtlw3
      _____
>
      mean | 50.241   .3363429   77.35734   61.23823   .6897507   61.
> 34903    65.22992
      _____
> _____

```

92 . estat teffects

Direct effects

```

> _____
      _____ |
>
      Coef.      OIM
      Std. Err.      z      P>|z|      [95% Conf. Inte
> rval]
      _____
>
Structural
  BSIanx <-
    radhlw1 | -.0261864   .0066269   -3.95   0.000   -.0391749   -.0
> 13198
    radhlw2 |          0   (no path)
    airw1    |          0   (no path)
    radhlw3 | .0202743   .0077012    2.63   0.008   .0051802   .03
> 53684
    airw2    |          0   (no path)
    radchw2  |          0   (no path)
    carcin   | .0238604   .005763    4.14   0.000   .0125652   .03
> 51556
    age      | .0355411   .015072    2.36   0.018   .0060006   .06
> 50816
    avgcumdosew1 | 1.051125   .3130825    3.36   0.001   .4374942   1.6
> 64755
    kzchorn   |          0   (no path)
    radchw1   | -.0147116   .0050761   -2.90   0.004   -.0246607   -.00
> 47625

```

	injselfr	1.184326	.4349537	2.72	0.006	.3318322	2.0
> 36819	radchw3	0	(no path)				
	radtlw3	0	(no path)				
> -----							
	radhlw1 <-						
	age	.3600175	.1426167	2.52	0.012	.0804938	.63
> 95411	kzchorn	.2142264	.0631237	3.39	0.001	.0905063	.33
> 79465	radchw1	.3958005	.0441655	8.96	0.000	.3092376	.48
> 23634	injselfr	16.75712	3.698516	4.53	0.000	9.50816	24.
> 00607							
> -----							
	radhlw2 <-						
	radhlw1	.6557659	.0300644	21.81	0.000	.5968408	.71
> 46911	airw1	0	(no path)				
	airw2	.048711	.0261846	1.86	0.063	-.0026099	.10
> 00319	radchw2	.3593586	.0408785	8.79	0.000	.2792381	.4
> 39479	carcin	.0922507	.0307511	3.00	0.003	.0319797	.15
> 25218	age	0	(no path)				
	avgcumdosew1	3.546406	1.702409	2.08	0.037	.2097453	6.8
> 83067	kzchorn	0	(no path)				
	radchw1	-.2772349	.0389849	-7.11	0.000	-.3536438	-.20
> 08259	injselfr	13.59271	2.228811	6.10	0.000	9.224324	17
> .9611							
> -----							
	airw1 <-						
	radhlw1	.2091065	.05076	4.12	0.000	.1096187	.30
> 85944	age	0	(no path)				
	kzchorn	0	(no path)				
	radchw1	.1653757	.050728	3.26	0.001	.0659506	.26
> 48007	injselfr	0	(no path)				
> -----							
	radhlw3 <-						
	radhlw1	-.0749775	.0309992	-2.42	0.016	-.1357348	-.01

```

> 42202      radhlw2 |      .954982   .0339465   28.13   0.000   .8884481   1.0
> 21516      airw1  |      .037302   .0194978    1.91   0.056  -.0009129   .07
> 55169      airw2  |           0 (no path)
      radchw2 |     -.1146538   .0560404   -2.05   0.041   -.224491  -.00
> 48167      carcin |           0 (no path)
      age      |           0 (no path)
      avgcumdosew1 |           0 (no path)
      kzchorn  |      .1004683   .0261373    3.84   0.000   .0492402   .15
> 16964      radchw1 |     -.0692966   .0285057   -2.43   0.015  -.1251667  -.01
> 34265      injselfr |           0 (no path)
      radchw3  |      .1428316   .0526619    2.71   0.007   .0396163   .2
> 46047      radtlw3 |      .0479939   .025144    1.91   0.056  -.0012875   .09
> 72753
-----
> -----
      airw2 <-
      radhlw1 |           0 (no path)
      airw1  |      .3633257   .0532384    6.82   0.000   .2589803   .46
> 76711      age   |      .3040449   .1559757    1.95   0.051  -.0016618   .60
> 97516      kzchorn |      .2288237   .0684717    3.34   0.001   .0946217   .36
> 30257      radchw1 |           0 (no path)
      injselfr |           0 (no path)
-----
> -----
      radchw2 <-
      kzchorn |      .2587261   .0457517    5.65   0.000   .1690543   .34
> 83979      radchw1 |      .6143786   .0331247   18.55   0.000   .5494555   .67
> 93018
-----
> -----
      avgcumdosew2 <-
      avgcumdosew1 |      2.188851   .0650407   33.65   0.000   2.061373   2.3
> 16328
-----
> -----
      avgcumdosew3 <-
      avgcumdosew2 |      1.324066   .022628   58.51   0.000   1.279716   1.3
> 68416

```

avgcumdosew1	-.20321	.0568778	-3.57	0.000	-.3146884	-.09
> 17316						
carcin <-						
avgcumdosew1	7.099894	2.991775	2.37	0.018	1.236124	12.
> 96367						

Indirect effects

	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]						
Structural						
BSIanx <-						
radhlw1	.0114063	.0008585	13.29	0.000	.0097238	.01
> 30889						
radhlw2	.0193616	.0006882	28.13	0.000	.0180127	.02
> 07105						
airw1	.0010989	.0003985	2.76	0.006	.0003179	.00
> 18799						
radhlw3	0 (no path)					
airw2	.0009431	.000507	1.86	0.063	-.0000505	.00
> 19368						
radchw2	.0046332	.0013847	3.35	0.001	.0019193	.00
> 73471						
carcin	.0017861	.0005954	3.00	0.003	.0006192	.00
> 29531						
age	-.0050343	.0028857	-1.74	0.081	-.0106902	.00
> 06215						
avgcumdosew1	.2507517	.093385	2.69	0.007	.0677205	.4
> 33783						
kzchorn	.0002852	.0021462	0.13	0.894	-.0039213	.00
> 44916						
radchw1	-.0095943	.0026782	-3.58	0.000	-.0148435	-.00
> 43451						
injselfr	.015505	.1559709	0.10	0.921	-.2901924	.32
> 12023						
radchw3	.0028958	.0015329	1.89	0.059	-.0001087	.00
> 59003						
radtlw3	.000973	.0006297	1.55	0.122	-.0002611	.00
> 22072						

```

> -----
radhlw1 <-
    age          0 (no path)
    kzchorn      0 (no path)
    radchw1      0 (no path)
    injselfr     0 (no path)
-----

> -----
radhlw2 <-
    radhlw1      .0037008 .0008983 4.12 0.000 .00194 .00
> 54615
    airw1        .017698 .0025933 6.82 0.000 .0126152 .02
> 27807
    airw2        0 (no path)
    radchw2      0 (no path)
    carcin       0 (no path)
    age          .2522299 .0952094 2.65 0.008 .0656229 .43
> 88369
    avgcumdosew1 .6549705 .3519093 1.86 0.063 -.0347591 1
> .3447
    kzchorn      .2453969 .0470294 5.22 0.000 .1532209 .33
> 75729
    radchw1      .4847263 .0431665 11.23 0.000 .4001214 .56
> 93311
    injselfr     11.05076 2.489712 4.44 0.000 6.171015 15.
> 93051
-----

> -----
airw1 <-
    radhlw1      0 (no path)
    age          .075282 .0349759 2.15 0.031 .0067305 .14
> 38335
    kzchorn      .0447961 .0171019 2.62 0.009 .011277 .07
> 83153
    radchw1      .0827645 .0221118 3.74 0.000 .0394261 .12
> 61029
    injselfr     3.504023 1.149621 3.05 0.002 1.250806 5.7
> 57239
-----

> -----
radhlw3 <-
    radhlw1      .6375789 .0288425 22.11 0.000 .5810486 .69
> 41092
    radhlw2      0 (no path)
    airw1        .0169012 .0024766 6.82 0.000 .0120473 .02
> 17552
    airw2        .0465181 .0250058 1.86 0.063 -.0024924 .09
> 55286
    radchw2      .3431809 .0390383 8.79 0.000 .2666673 .41

```

> 96946	carcin	.0880978	.0293667	3.00	0.003	.03054	.14
> 56556	age	.2166899	.0817952	2.65	0.008	.0563743	.37
> 70056	avgcumdosew1	4.012239	1.644266	2.44	0.015	.7895365	7.2
> 34942	kzchorn	.1902945	.0423739	4.49	0.000	.1072431	.27
> 33458	radchw1	.1072897	.0506743	2.12	0.034	.0079699	.20
> 66095	injselfr	22.40837	2.96468	7.56	0.000	16.59771	28.
> 21904	radchw3	0	(no path)				
	radtlw3	0	(no path)				
> -----							
airw2 <-							
radhlw1		.0759738	.0184424	4.12	0.000	.0398273	.11
> 21203	airw1	0	(no path)				
	age	.0273519	.0133247	2.05	0.040	.001236	.05
> 34678	kzchorn	.0162756	.0066555	2.45	0.014	.003231	.02
> 93202	radchw1	.0901557	.0213833	4.22	0.000	.0482452	.13
> 20662	injselfr	1.273101	.4574525	2.78	0.005	.3765109	2.1
> 69692							
> -----							
radchw2 <-							
kzchorn		0	(no path)				
radchw1		0	(no path)				
> -----							
avgcumdosew2 <-							
avgcumdosew1		0	(no path)				
> -----							
avgcumdosew3 <-							
avgcumdosew2		0	(no path)				
avgcumdosew1		2.898182	.0993453	29.17	0.000	2.703469	3.0
> 92895							
> -----							
carcin <-							
avgcumdosew1		0	(no path)				

> _____

Total effects

> _____		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> _____							
Structural							
BSIanx <-							
> 16831	radhlw1	-.0147801	.0066822	-2.21	0.027	-.027877	-.00
> 07105	radhlw2	.0193616	.0006882	28.13	0.000	.0180127	.02
> 18799	airw1	.0010989	.0003985	2.76	0.006	.0003179	.00
> 53684	radhlw3	.0202743	.0077012	2.63	0.008	.0051802	.03
> 19368	airw2	.0009431	.000507	1.86	0.063	-.0000505	.00
> 73471	radchw2	.0046332	.0013847	3.35	0.001	.0019193	.00
> 70018	carcin	.0256465	.0057936	4.43	0.000	.0142912	.03
> 99799	age	.0305068	.0150376	2.03	0.042	.0010336	.05
> 32388	avgcumdosew1	1.301876	.3216954	4.05	0.000	.671365	1.9
> 44916	kzchorn	.0002852	.0021462	0.13	0.894	-.0039213	.00
> 50463	radchw1	-.0243059	.0047244	-5.14	0.000	-.0335655	-.01
> 64984	injselfr	1.199831	.3903916	3.07	0.002	.4346772	1.9
> 59003	radchw3	.0028958	.0015329	1.89	0.059	-.0001087	.00
> 22072	radtlw3	.000973	.0006297	1.55	0.122	-.0002611	.00
> _____							
radhlw1 <-							
> 95411	age	.3600175	.1426167	2.52	0.012	.0804938	.63
> 79465	kzchorn	.2142264	.0631237	3.39	0.001	.0905063	.33
	radchw1	.3958005	.0441655	8.96	0.000	.3092376	.48

```

> 23634      injselfr | 16.75712  3.698516  4.53  0.000  9.50816  24.
> 00607
+-----+-----+
>      radhlw2 <-
      radhlw1 | .6594667  .0300778  21.93  0.000  .6005152  .71
> 84182      airw1 | .017698  .0025933  6.82  0.000  .0126152  .02
> 27807      airw2 | .048711  .0261846  1.86  0.063  -.0026099  .10
> 00319      radchw2 | .3593586  .0408785  8.79  0.000  .2792381  .4
> 39479      carcin | .0922507  .0307511  3.00  0.003  .0319797  .15
> 25218      age | .2522299  .0952094  2.65  0.008  .0656229  .43
> 88369      avgcumdosew1 | 4.201377  1.715288  2.45  0.014  .8394741  7.5
> 63279      kzchorn | .2453969  .0470294  5.22  0.000  .1532209  .33
> 75729      radchw1 | .2074914  .0402088  5.16  0.000  .1286836  .28
> 62993      injselfr | 24.64347  3.240276  7.61  0.000  18.29265  30
> .9943
+-----+-----+
>      airw1 <-
      radhlw1 | .2091065  .05076  4.12  0.000  .1096187  .30
> 85944      age | .075282  .0349759  2.15  0.031  .0067305  .14
> 38335      kzchorn | .0447961  .0171019  2.62  0.009  .011277  .07
> 83153      radchw1 | .2481401  .0462792  5.36  0.000  .1574345  .33
> 88458      injselfr | 3.504023  1.149621  3.05  0.002  1.250806  5.7
> 57239
+-----+-----+
>      radhlw3 <-
      radhlw1 | .5626014  .0423419  13.29  0.000  .4796128  .64
> 55901      radhlw2 | .954982  .0339465  28.13  0.000  .8884481  1.0
> 21516      airw1 | .0542032  .0196544  2.76  0.006  .0156813  .09
> 27252      airw2 | .0465181  .0250058  1.86  0.063  -.0024924  .09

```

```

> 55286      radchw2 | .2285271 .0682972 3.35 0.001 .094667 .36
> 23872      carcin | .0880978 .0293667 3.00 0.003 .03054 .14
> 56556      age | .2166899 .0817952 2.65 0.008 .0563743 .37
> 70056      avgcumdosew1 | 4.012239 1.644266 2.44 0.015 .7895365 7.2
> 34942      kzchorn | .2907628 .0486952 5.97 0.000 .1953219 .38
> 62036      radchw1 | .0379931 .0478336 0.79 0.427 -.055759 .13
> 17452      injselfr | 22.40837 2.96468 7.56 0.000 16.59771 28.
> 21904      radchw3 | .1428316 .0526619 2.71 0.007 .0396163 .2
> 46047      radtlw3 | .0479939 .025144 1.91 0.056 -.0012875 .09
> 72753
+-----+-----+
> airw2 <-
      radhlw1 | .0759738 .0184424 4.12 0.000 .0398273 .11
> 21203      airw1 | .3633257 .0532384 6.82 0.000 .2589803 .46
> 76711      age | .3313968 .1562362 2.12 0.034 .0251795 .63
> 76141      kzchorn | .2450993 .0685918 3.57 0.000 .1106618 .37
> 95368      radchw1 | .0901557 .0213833 4.22 0.000 .0482452 .13
> 20662      injselfr | 1.273101 .4574525 2.78 0.005 .3765109 2.1
> 69692
+-----+-----+
> radchw2 <-
      kzchorn | .2587261 .0457517 5.65 0.000 .1690543 .34
> 83979      radchw1 | .6143786 .0331247 18.55 0.000 .5494555 .67
> 93018
+-----+-----+
> avgcumdosew2 <-
      avgcumdosew1 | 2.188851 .0650407 33.65 0.000 2.061373 2.3
> 16328
+-----+-----+
> avgcumdosew3 <-

```



```
98 . title4 "Non-robust FemDoseAnxPathModelanx.stsem"
```

```
Non-robust FemDoseAnxPathModelanx.stsem
```

```
99 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
> SIanxPathModel/FemPerRiskAnxPathModel1.stsem"
100 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
> athModel/FemPerRiskAnxPathModel1.stsem", replace
101 . set more off

102 . sem(age avgcumdosew1->BSIanx)(radhlw1->BSIanx) ///
> (injselfr->BSIanx)(avgcumdosew1->radhlw1) (BSIanx->radhlw1) ///
> (avgcumdosew1->BSIanx)(radhlw1->BSIanx) if gender==2, nocapslatent
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **BSIanx radhlw1**

Exogenous variables

Observed: **age avgcumdosew1 injselfr**

Fitting target model:

```
Iteration 0: log likelihood = -4708.2737 (not concave)
Iteration 1: log likelihood = -4704.0373 (not concave)
Iteration 2: log likelihood = -4702.6059 (not concave)
Iteration 3: log likelihood = -4701.4967 (not concave)
Iteration 4: log likelihood = -4700.7094 (not concave)
Iteration 5: log likelihood = -4699.8784 (not concave)
Iteration 6: log likelihood = -4698.1246
Iteration 7: log likelihood = -4688.0528
Iteration 8: log likelihood = -4679.4214
Iteration 9: log likelihood = -4675.4394
Iteration 10: log likelihood = -4674.3131
Iteration 11: log likelihood = -4673.9836
Iteration 12: log likelihood = -4673.9394
Iteration 13: log likelihood = -4673.9384
Iteration 14: log likelihood = -4673.9384
```

Structural equation model	Number of obs	=	362
Estimation method	=	ml	
Log likelihood	=	-4673.9384	

```

> _____
               OIM
             Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
_____
Structural
  BSIanx <-
    radhlw1 |  -.1407127   .0277153   -5.08   0.000   -.1950337   -.086
> 3918
    age |    .1117602   .0291086    3.84   0.000    .0547084    .16
> 8812
    avgcumdosew1 |  1.190002   .5153486    2.31   0.021    .1799374    2.20
> 0067
    injselfr |  4.571848   .8812757    5.19   0.000    2.844579    6.29
> 9117
    _cons |  7.807608   1.27076    6.14   0.000    5.316964   10.2
> 9825
_____
> _____
    radhlw1 <-
      BSIanx |   17.32319   5.114333    3.39   0.001    7.299283   27.
> 3471
      avgcumdosew1 | -22.54112  10.64109   -2.12   0.034   -43.39728   -1.68
> 4957
      _cons | -91.41468  43.61049   -2.10   0.036  -176.8897   -5.93
> 9685
_____
> _____
Variance
    e.BSIanx |   27.84519   8.048744             15.80184   49.0
> 6737
    e.radhlw1 |  5764.263  2451.204             2504.825  1326
> 5.09
_____
> _____
LR test of model vs. saturated: chi2(1)    =      0.02, Prob > chi2 = 0.8861

```

```
103 . title4 "cluster robust version of Female Dose Anxiety Path Model"
```

```
cluster robust version of Female Dose Anxiety Path Model
```

```
104 . set more off
```

```
105 . sem(age avgcumdosew1->BSIanx)(radhlw1->BSIanx) ///  
> (injselfr->BSIanx)(avgcumdosew1->radhlw1) (BSIanx->radhlw1) ///  
> (avgcumdosew1->BSIanx)(radhlw1->BSIanx) if gender==2, nocapslatent  
(1 observations with missing values excluded;  
specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **BSIanx radhlw1**

Exogenous variables

Observed: **age avgcumdosew1 injselfr**

Fitting target model:

```
Iteration 0: log likelihood = -4708.2737 (not concave)  
Iteration 1: log likelihood = -4704.0373 (not concave)  
Iteration 2: log likelihood = -4702.6059 (not concave)  
Iteration 3: log likelihood = -4701.4967 (not concave)  
Iteration 4: log likelihood = -4700.7094 (not concave)  
Iteration 5: log likelihood = -4699.8784 (not concave)  
Iteration 6: log likelihood = -4698.1246  
Iteration 7: log likelihood = -4688.0528  
Iteration 8: log likelihood = -4679.4214  
Iteration 9: log likelihood = -4675.4394  
Iteration 10: log likelihood = -4674.3131  
Iteration 11: log likelihood = -4673.9836  
Iteration 12: log likelihood = -4673.9394  
Iteration 13: log likelihood = -4673.9384  
Iteration 14: log likelihood = -4673.9384
```

```
Structural equation model                               Number of obs       =       362  
Estimation method   = ml  
Log likelihood       = -4673.9384
```

```

> _____
               OIM
             Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
_____
Structural
  BSIanx <-
    radhlw1 |  -.1407127   .0277153   -5.08   0.000   -.1950337   -.086
> 3918
    age |    .1117602   .0291086    3.84   0.000    .0547084    .16
> 8812
    avgcumdosew1 |  1.190002   .5153486    2.31   0.021    .1799374    2.20
> 0067
    injselfr |  4.571848   .8812757    5.19   0.000    2.844579    6.29
> 9117
    _cons |  7.807608   1.27076    6.14   0.000    5.316964   10.2
> 9825
_____
  radhlw1 <-
    BSIanx |   17.32319   5.114333    3.39   0.001    7.299283   27.
> 3471
    avgcumdosew1 | -22.54112   10.64109   -2.12   0.034   -43.39728   -1.68
> 4957
    _cons | -91.41468   43.61049   -2.10   0.036  -176.8897   -5.93
> 9685
_____
Variance
    e.BSIanx |   27.84519   8.048744             15.80184   49.0
> 6737
    e.radhlw1 |  5764.263   2451.204             2504.825   1326
> 5.09
_____
LR test of model vs. saturated: chi2(1)    =      0.02, Prob > chi2 = 0.8861

```

106 . estat stable, detail // moduli must be within unit circle

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
0 + 1.56128i	1.56128
0 - 1.56128i	1.56128

stability index = **1.56128**

At least one eigenvalue is at least 1.0.

SEM does not satisfy stability condition.

Endogenous variables on endogenous variables

Beta	observed	
	BSIanx	radhlw1
observed		
BSIanx	0	-.1407127
radhlw1	17.32319	0

107 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(1)	0.021	model vs. saturated
p > chi2	0.886	
chi2_bs(7)	110.073	baseline vs. saturated
p > chi2	0.000	

108 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-4673.938	10	9367.877	9406.793

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

109 . estat residuals

Residuals of observed variables

Mean residuals

	BSIanx	radhlw1	age	avgcumd~1	injselfr
raw	-0.000	0.000	0.000	0.000	0.000

Covariance residuals

	BSIanx	radhlw1	age	avgcumd~1	injselfr
BSIanx	0.000				
radhlw1	-0.000	0.000			
age	-0.209	1.487	0.000		
avgcumdosew1	-0.000	0.000	0.000	0.000	
injselfr	0.005	-0.036	0.000	0.000	0.000

110 . estat framework

(model contains no latent variables)

Endogenous variables on endogenous variables

Beta	observed	
	BSIanx	radhlw1
observed		
BSIanx	0	-.1407127
radhlw1	17.32319	0

Exogenous variables on endogenous variables

	observed			
Gamma	age	avgcumd~1	injselfr	
observed				
BSIanx	.1117602	1.190002	4.571848	
radhlw1	0	-22.54112	0	

Covariances of error variables

	observed		
Psi	e.BSIanx	e.radhlw1	
observed			
e.BSIanx	27.84519		
e.radhlw1	0	5764.263	

Intercepts of endogenous variables

	observed		
alpha	BSIanx	radhlw1	
_cons	7.807608	-91.41468	

Covariances of exogenous variables

	observed			
Phi	age	avgcumd~1	injselfr	
observed				
age	139.7112			
avgcumdosew1	1.184802	.3015684		
injselfr	1.161854	.0279813	.2147141	

Means of exogenous variables

	observed			
kappa	age	avgcumd~1	injselfr	
mean	50.27072	.336224	.6878453	

```
111 . sem, standardize
```

```

Structural equation model          Number of obs      =       362
Estimation method   = ml
Log likelihood       = -4673.9384

```

> -----							
Standardized		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inter	
> val]							
> -----							
Structural							
BSIanx <-							
radhlwl		-1.433266	.2831342	-5.06	0.000	-1.988199	-.878
> 3332							
age		.3619475	.0945424	3.83	0.000	.1766478	.547
> 2472							
avgcumdosewl		.1790537	.0770828	2.32	0.020	.0279742	.330
> 1333							
injselfr		.5804499	.1124749	5.16	0.000	.3600032	.800
> 8967							
_cons		2.139246	.3651726	5.86	0.000	1.423521	2.85
> 4971							
> -----							
radhlwl <-							
BSIanx		1.700727	.492321	3.45	0.001	.7357952	2.66
> 5658							
avgcumdosewl		-.3329796	.1552938	-2.14	0.032	-.63735	-.028
> 6093							
_cons		-2.459038	1.14835	-2.14	0.032	-4.709762	-.208
> 3138							
> -----							
Variance							
e.BSIanx		2.090429	.6168322			1.172378	3.72
> 7377							
e.radhlwl		4.171021	1.685731			1.888976	9.20
> 9969							
> -----							
LR test of model vs. saturated: chi2(1) =		0.02, Prob > chi2 = 0.8861					

112 . estat teffects

Direct effects

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inter	
> val]							
> —							
Structural							
BSIanx <-							
BSIanx		0	(no path)				
radhlw1		-.1407127	.0277153	-5.08	0.000	-.1950337	-.086
> 3918							
age		.1117602	.0291086	3.84	0.000	.0547084	.16
> 8812							
avgcumdosew1		1.190002	.5153486	2.31	0.021	.1799374	2.20
> 0067							
injselfr		4.571848	.8812757	5.19	0.000	2.844579	6.29
> 9117							
> —							
radhlw1 <-							
BSIanx		17.32319	5.114333	3.39	0.001	7.299283	27.
> 3471							
radhlw1		0	(no path)				
age		0	(no path)				
avgcumdosew1		-22.54112	10.64109	-2.12	0.034	-43.39728	-1.68
> 4957							
injselfr		0	(no path)				
> —							

Indirect effects

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inter	
> val]							
> —							
Structural							
BSIanx <-							
BSIanx		-.7090988	.2093475	-3.39	0.001	-1.119412	-.298
> 7852							
radhlw1		.0997792	.0196529	5.08	0.000	.0612603	.138

```

> 2981
      age |  -.079249   .0280762   -2.82   0.005   -.1342774   -.024
> 2207
      avgcumdosew1 |  .0788577   .475827    0.17   0.868   -.853746    1.01
> 1461
      injselfr |  -3.241892   .9918204   -3.27   0.001   -5.185824   -1.2
> 9796
-----
> -----
      radhlw1 <-
      BSianx |  -12.28385   3.626567   -3.39   0.001   -19.3918    -5.17
> 5913
      radhlw1 |  -.7090988   .1396665   -5.08   0.000   -.9828402   -.435
> 3575
      age |  .5631973   .1324465    4.25   0.000   .3036069    .822
> 7877
      avgcumdosew1 |  21.9807    9.380647    2.34   0.019   3.594971    40.3
> 6643
      injselfr |  23.03908    3.657773    6.30   0.000   15.86998    30.2
> 0818
-----
> -----

```

Total effects

```

> -----
                                     OIM
                                     Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----+-----
> -----
Structural
      BSianx <-
      BSianx |  -.7090988   .2093475   -3.39   0.001   -1.119412   -.298
> 7852
      radhlw1 |  -.0409335   .0080624   -5.08   0.000   -.0567355   -.025
> 1315
      age |  .0325112   .0097576    3.33   0.001   .0133866    .051
> 6357
      avgcumdosew1 |  1.26886    .337145    3.76   0.000   .6080678    1.92
> 9652
      injselfr |  1.329956    .3322407    4.00   0.000   .678776     1.98
> 1136
-----
> -----
      radhlw1 <-
      BSianx |  5.039336    1.487765    3.39   0.001    2.12337     7.95
> 5303

```

```
113 .
114 .
115 . title "Male Dose perceived risk BSI anxiety"
```

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```

116 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
    > SIanxPathModel/MaleDoseAnxPathModel1.stsem"
117 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
    > athModel/MaleDoseAnxPathModel1.stsem", replace
118 . set more off

119 . sem (age -> avgcumdosew1) (age -> injselfr) (age -> crhtw1) ///
    >      (injselfr -> crhtw1) (crhtw1 -> BSIanx) if gender==1, nocapslatent

```

Endogenous variables

Observed: **avgcumdosew1 injselfr crhtw1 BSIanx**

Exogenous variables

Observed: **age**

Fitting target model:

Iteration 0: log likelihood = **-3443.9284**

Iteration 1: log likelihood = **-3443.9284**

```

Structural equation model                                Number of obs      =      339
Estimation method   = ml
Log likelihood       = -3443.9284

```

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> _____							
> rval]							
> _____							
Structural							
avgcumdosew1 <-							
age		.0125468	.0073847	1.70	0.089	-.0019269	.02
> 70206							
_cons		-.1868808	.3741827	-0.50	0.617	-.9202653	.54
> 65038							
> _____							
injselfr <-							
age		.0142806	.002082	6.86	0.000	.0101999	.01
> 83613							
_cons		-.1948593	.1054966	-1.85	0.065	-.4016288	.01
> 19102							
> _____							
crhtw1 <-							

```

      injselfr |   .6182494   .0961244    6.43   0.000    .429849   .80
> 66499
      age |   .0157949   .0039322    4.02   0.000    .0080879   .0
> 23502
      _cons |  -1.232503   .1876491   -6.57   0.000   -1.600289  -.86
> 47178
-----
> -----
      BSIanx <-
      crhtw1 |   .58706   .1588541    3.70   0.000    .2757116   .89
> 84084
      _cons |   7.697001   .1492009   51.59   0.000    7.404573   7.
> 98943
-----
> -----
Variance
      e.avgcumdosew1 |   2.761198   .2120863                      2.375292   3.2
> 09799
      e.injselfr |   .2194861   .0168586                      .1888107   .25
> 51452
      e.crhtw1 |   .6875025   .0528067                      .5914171   .79
> 91985
      e.BSIanx |   7.373665   .5663678                      6.343121   8.5
> 71638
-----
> -----
LR test of model vs. saturated: chi2(5)    =      9.75, Prob > chi2 = 0.0826

```

```
120 . set more off
```

```
121 . sem (age -> avgcumdosew1) (age -> injselfr) (age -> crhtw1) ///
>      (injselfr -> crhtw1) (crhtw1 -> BSIanx) if gender==1, nocapslatent
```

Endogenous variables

Observed: **avgcumdosew1 injselfr crhtw1 BSIanx**

Exogenous variables

Observed: **age**

Fitting target model:

```
Iteration 0:  log likelihood = -3443.9284
Iteration 1:  log likelihood = -3443.9284
```

```
Structural equation model      Number of obs      =      339
Estimation method   = ml
Log likelihood      = -3443.9284
```

```
Estimation method = ml
```

> -----							
		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte	
> rval]							
> -----							
Structural							
avgcumdosew1 <-							
age		.0125468	.0073847	1.70	0.089	-.0019269	.02
> 70206							
_cons		-.1868808	.3741827	-0.50	0.617	-.9202653	.54
> 65038							
> -----							
injselfr <-							
age		.0142806	.002082	6.86	0.000	.0101999	.01
> 83613							
_cons		-.1948593	.1054966	-1.85	0.065	-.4016288	.01
> 19102							
> -----							
crhtw1 <-							
injselfr		.6182494	.0961244	6.43	0.000	.429849	.80
> 66499							
age		.0157949	.0039322	4.02	0.000	.0080879	.0
> 23502							
_cons		-1.232503	.1876491	-6.57	0.000	-1.600289	-.86
> 47178							
> -----							
BSIanx <-							
crhtw1		.58706	.1588541	3.70	0.000	.2757116	.89
> 84084							
_cons		7.697001	.1492009	51.59	0.000	7.404573	7.
> 98943							
> -----							
Variance							
e.avgcumdosew1		2.761198	.2120863			2.375292	3.2
> 09799							
e.injselfr		.2194861	.0168586			.1888107	.25
> 51452							
e.crhtw1		.6875025	.0528067			.5914171	.79
> 91985							

e.BSIanx	7.373665	.5663678	6.343121	8.5
----------	----------	----------	----------	-----

> 71638

> _____
 LR test of model vs. saturated: chi2(5) = 9.75, Prob > chi2 = 0.0826

122 . estat stable, detail // moduli must be within unit circle

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
0	0
0	0
0	0
0	0

stability index = 0
 All the eigenvalues lie inside the unit circle.
 SEM satisfies stability condition.

Endogenous variables on endogenous variables

Beta	observed			
	avgcumd~1	injselfr	crhtw1	BSIanx
observed				
avgcumdosew1	0	0	0	0
injselfr	0	0	0	0
crhtw1	0	.6182494	0	0
BSIanx	0	0	.58706	0

123 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(5)	9.752	model vs. saturated
p > chi2	0.083	
chi2_bs(10)	146.732	baseline vs. saturated
p > chi2	0.000	

124 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	339	.	-3443.928	13	6913.857	6963.595

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

125 . estat residuals

Residuals of observed variables

Mean residuals

	avgcumd~1	injselfr	crhtw1	BSIanx	age
raw	0.000	-0.000	0.000	0.000	0.000

Covariance residuals

	avgcumd~1	injselfr	crhtw1	BSIanx	age
avgcumdosew1	0.000				
injselfr	0.070	0.000			
crhtw1	0.088	0.000	0.000		
BSIanx	0.399	0.030	0.000	0.000	
age	0.000	0.000	0.000	3.772	0.000

126 . estat framework

(model contains no latent variables)

Endogenous variables on endogenous variables

Beta	observed	avgcumd~1	injselfr	crhtw1	BSIanx
observed					
avgcumdosew1		0	0	0	0
injselfr		0	0	0	0
crhtw1		0	.6182494	0	0
BSIanx		0	0	.58706	0

Exogenous variables on endogenous variables

	observed
Gamma	age
observed	
avgcumdosew1	.0125468
injselfr	.0142806
crhtw1	.0157949
BSIanx	0

Covariances of error variables

	observed			
Psi	e.avgcu~1	e.injse~r	e.crhtw1	e.BSIanx
observed				
e.avgcu~1	2.761198			
e.injselfr	0	.2194861		
e.crhtw1	0	0	.6875025	
e.BSIanx	0	0	0	7.373665

Intercepts of endogenous variables

	observed			
alpha	avgcumd~1	injselfr	crhtw1	BSIanx
_cons	-.1868808	-.1948593	-1.232503	7.697001

Covariances of exogenous variables

	observed
Phi	age
observed	
age	149.3591

Means of exogenous variables

	observed
kappa	age
mean	49.17404

```
127 . sem, standardize
```

```

Structural equation model          Number of obs    =    339
Estimation method   = ml
Log likelihood      = -3443.9284

```

> -----							
Standardized	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Inte		
> rval]							
> -----							
Structural							
avgcumdosew1 <-							
age	.0918882	.0537402	1.71	0.087	-.0134406	.1	
> 97217							
_cons	-.1119888	.2237306	-0.50	0.617	-.5504927	.3	
> 26515							
> -----							
injselfr <-							
age	.3490913	.0462179	7.55	0.000	.2585059	.43	
> 96767							
_cons	-.389761	.2047248	-1.90	0.057	-.7910143	.01	
> 14923							
> -----							
crhtw1 <-							
injselfr	.3329225	.0493043	6.75	0.000	.2362878	.42	
> 95572							
age	.2079172	.0503882	4.13	0.000	.1091582	.30	
> 66761							
_cons	-1.327531	.1899613	-6.99	0.000	-1.699849	-.95	
> 52139							
> -----							
BSIanx <-							
crhtw1	.196792	.0522036	3.77	0.000	.0944748	.29	
> 91092							
_cons	2.779094	.117552	23.64	0.000	2.548696	3.0	
> 09492							
> -----							
Variance							
e.avgcumdosew1	.9915566	.0098762			.9723873	1.0	
> 11104							
e.injselfr	.8781353	.0322685			.817114	.94	
> 37136							

e.crhtw1		.7976046	.0384427		.7257076	.87
> 66246						
e.BSIanx		.9612729	.0205465		.9218344	1.0
> 02399						

> _____
LR test of model vs. saturated: chi2(5) = 9.75, Prob > chi2 = 0.0826

128 . estat teffects

Direct effects

> _____						
		OIM				
	Coef.	Std. Err.	z	P> z	[95% Conf. Inte	
> rval]						
> _____						
Structural						
avgcumdosew1 <-						
age	.0125468	.0073847	1.70	0.089	-.0019269	.02
> 70206						
> _____						
injselfr <-						
age	.0142806	.002082	6.86	0.000	.0101999	.01
> 83613						
> _____						
crhtw1 <-						
injselfr	.6182494	.0961244	6.43	0.000	.429849	.80
> 66499						
age	.0157949	.0039322	4.02	0.000	.0080879	.0
> 23502						
> _____						
BSIanx <-						
injselfr	0 (no path)					
crhtw1	.58706	.1588541	3.70	0.000	.2757116	.89
> 84084						
age	0 (no path)					
> _____						

Indirect effects

> _____							
	OIM						
	Coef.	Std. Err.	z	P> z	[95% Conf. Inte		
> rval]							
> _____							
Structural							
avgcumdosew1 <-							
age	0	(no path)					
> _____							
injselfr <-							
age	0	(no path)					
> _____							
crhtw1 <-							
injselfr	0	(no path)					
age	.008829	.0018818	4.69	0.000	.0051407	.01	
> 25173							
> _____							
BSIanx <-							
injselfr	.3629495	.0564308	6.43	0.000	.2523471	.47	
> 35519							
crhtw1	0	(no path)					
age	.0144557	.0045334	3.19	0.001	.0055705	.02	
> 33409							
> _____							

Total effects

		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Inte	
> _____							
> rval]							
> _____							
Structural							
avgcumdosew1 <-							
age		.0125468	.0073847	1.70	0.089	-.0019269	.02
> 70206							
> _____							
injselfr <-							
age		.0142806	.002082	6.86	0.000	.0101999	.01


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

```
138 . set more off
```

```
139 . title4 "non-robust version"
```

```
non-robust version
```

```
140 . // mANXcrht.stsem is model builder for this model
```

```
141 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
> SIanxPathModel/mANXcrht.stsem"
```

```
142 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
> athModel/mANXcrht.stsem", replace
```

```
143 .
```

```
144 . sem(crhtw1->whppain)(whppain->whpsleep)(whpsleep->whpel) ///
> (whpel whpsleep->BSIanx)(crhtw1->whpsleep) ///
> (whppain->whpel) if gender==1, nocapslatent
```

```
Endogenous variables
```

```
Observed: whppain whpsleep whpel BSIanx
```

```
Exogenous variables
```

```
Observed: crhtw1
```

```
Fitting target model:
```

```
Iteration 0: log likelihood = -5745.6684
```

```
Iteration 1: log likelihood = -5745.6684
```

```
Structural equation model
```

```
Estimation method = ml
```

```
Log likelihood = -5745.6684
```

```
Number of obs = 339
```

```

> -
      Coef.      OIM      Std. Err.      z    P>|z|      [95% Conf. Interval
> ]
-----+-----
> -
Structural
  whppain <-
    crhtw1 | 3.750412   .9400436    3.99   0.000    1.907961    5.59286
> 4
    _cons | 10.74268   .8829189   12.17   0.000    9.012189   12.4731
> 7
-----+-----
> -
  whpsleep <-
    whppain | .6368974   .0718842    8.86   0.000    .4960069    .777787
> 8
    crhtw1 | 5.84165    1.273048    4.59   0.000    3.346521    8.33677
> 8
    _cons | 11.6756    1.400675    8.34   0.000    8.930325   14.4208
> 7
-----+-----
> -
  whpel <-
    whppain | .6331053   .0936262    6.76   0.000    .4496013    .816609
> 2
  whpsleep | .3559356   .0620519    5.74   0.000    .2343162    .47755
> 5
    _cons | 10.54966   1.719989    6.13   0.000    7.178547   13.9207
> 8
-----+-----
> -
  BSIanx <-
    whpsleep | .0392335   .0058974    6.65   0.000    .0276748    .050792
> 3
    whpel | .021392    .0048781    4.39   0.000    .011831    .030952
> 9
    _cons | 6.436908   .1721046   37.40   0.000    6.099589    6.77422
> 7
-----+-----
> -
Variance
  e.whppain | 258.2155   19.83341                222.1273    300.166
> 8
  e.whpsleep | 452.3232   34.74274                389.1065    525.810
> 5
  e.whpel | 627.0886   48.16638                539.4466    728.969
> 4

```

e.BSIanx	5.74099	.4409628		4.938629	6.67370
----------	---------	----------	--	----------	---------

> 8

> -
 LR test of model vs. saturated: chi2(3) = 4.45, Prob > chi2 = 0.2167

145 . estat mindices
 (no modification indices to report, all MI values less than 3.841458820694123)

146 . set more off

147 . title4 "Robust version"

Robust version

148 . sem (crhtw1 -> whppain) (crhtw1 -> whpsleep) (whppain -> whpsleep) ///
 > (whppain -> whpel) (whpsleep -> whpel) (whpsleep -> BSIanx) ///
 > (whpel -> BSIanx) if gender==1, nocapslatent

Endogenous variables

Observed: **whppain whpsleep whpel BSIanx**

Exogenous variables

Observed: **crhtw1**

Fitting target model:

Iteration 0: log likelihood = -5745.6684
 Iteration 1: log likelihood = -5745.6684

Structural equation model	Number of obs	=	339
Estimation method	=	ml	
Log likelihood	=	-5745.6684	

> -						
		OIM				
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval	
>]						
> -						
Structural						
whppain <-						
crhtw1	3.750412	.9400436	3.99	0.000	1.907961	5.59286
> 4						
_cons	10.74268	.8829189	12.17	0.000	9.012189	12.4731

```

> 7
-----
> -
whpsleep <- whppain | .6368974 .0718842 8.86 0.000 .4960069 .777787
> 8
crhtw1 | 5.84165 1.273048 4.59 0.000 3.346521 8.33677
> 8
_cons | 11.6756 1.400675 8.34 0.000 8.930325 14.4208
> 7
-----
> -
whpel <- whppain | .6331053 .0936262 6.76 0.000 .4496013 .816609
> 2
whpsleep | .3559356 .0620519 5.74 0.000 .2343162 .47755
> 5
_cons | 10.54966 1.719989 6.13 0.000 7.178547 13.9207
> 8
-----
> -
BSIanx <- whpsleep | .0392335 .0058974 6.65 0.000 .0276748 .050792
> 3
whpel | .021392 .0048781 4.39 0.000 .011831 .030952
> 9
_cons | 6.436908 .1721046 37.40 0.000 6.099589 6.77422
> 7
-----
> -
Variance
e.whppain | 258.2155 19.83341 222.1273 300.166
> 8
e.whpsleep | 452.3232 34.74274 389.1065 525.810
> 5
e.whpel | 627.0886 48.16638 539.4466 728.969
> 4
e.BSIanx | 5.74099 .4409628 4.938629 6.67370
> 8
-----
> -
LR test of model vs. saturated: chi2(3) = 4.45, Prob > chi2 = 0.2167

```

149 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(3)	4.451	model vs. saturated
p > chi2	0.217	
chi2_bs(10)	344.945	baseline vs. saturated
p > chi2	0.000	

150 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	339	.	-5745.668	15	11521.34	11578.73

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

151 . estat framework
(model contains no latent variables)

Endogenous variables on endogenous variables

Beta	observed			
	whppain	whpsleep	whpel	BSIanx
observed				
whppain	0	0	0	0
whpsleep	.6368974	0	0	0
whpel	.6331053	.3559356	0	0
BSIanx	0	.0392335	.021392	0

Exogenous variables on endogenous variables

Gamma	observed
	crhtw1
observed	
whppain	3.750412
whpsleep	5.84165
whpel	0
BSIanx	0

Covariances of error variables

	observed			
Psi	e.whppain	e.whpsl~p	e.whpel	e.BSIanx
observed				
e.whppain	258.2155			
e.whpsleep	0	452.3232		
e.whpel	0	0	627.0886	
e.BSIanx	0	0	0	5.74099

Intercepts of endogenous variables

	observed			
alpha	whppain	whpsleep	whpel	BSIanx
_cons	10.74268	11.6756	10.54966	6.436908

Covariances of exogenous variables

	observed
Phi	crhtw1
observed	
crhtw1	.861959

Means of exogenous variables

	observed
kappa	crhtw1
mean	-.1421184

```
152 . estat residuals
```

Residuals of observed variables

Mean residuals

	whppain	whpsleep	whpel	BSIanx	crhtw1
raw	0.000	0.000	0.000	0.000	0.000

Covariance residuals

	whppain	whpsleep	whpel	BSIanx	crhtw1
whppain	0.000				
whpsleep	0.000	0.000			
whpel	0.000	0.000	0.000		
BSIanx	2.132	0.000	0.000	0.000	
crhtw1	0.000	0.000	1.878	0.130	0.000

```
153 . sem, standardize
```

```
Structural equation model          Number of obs      =       339
Estimation method   = ml
Log likelihood      = -5745.6684
```

> -						
Standardized	Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interval	
>]						
> -						
Structural						
whppain <-						
crhtw1	.2117715	.0512919	4.13	0.000	.1112414	.312301
> 7						
_cons	.653368	.058246	11.22	0.000	.539208	.76752
> 8						
> -						
whpsleep <-						
whppain	.4221113	.0436672	9.67	0.000	.3365253	.507697
> 4						
crhtw1	.2186158	.0461779	4.73	0.000	.1281088	.309122
> 9						
_cons	.4706325	.0630718	7.46	0.000	.347014	.594250

```

> 9
-----
> -
whpel <- whppain | .3470749 .0496259 6.99 0.000 .24981 .444339
> 8
whpsleep | .2944158 .049796 5.91 0.000 .1968174 .392014
> 3
_cons | .3517476 .063881 5.51 0.000 .2265433 .47695
> 2
-----
> -
BSIanx <- whpsleep | .351428 .0504854 6.96 0.000 .2524783 .450377
> 7
whpel | .2316542 .0518412 4.47 0.000 .1300473 .33326
> 1
_cons | 2.324122 .1272184 18.27 0.000 2.074779 2.57346
> 6
-----
> -
Variance
e.whppain | .9551528 .0217243 .913509 .99869
> 5
e.whpsleep | .7349445 .0407507 .6592615 .819315
> 9
e.whpel | .6971304 .0416497 .6200968 .783733
> 8
e.BSIanx | .7484281 .0407581 .6726593 .832731
> 5
-----
> -
LR test of model vs. saturated: chi2(3) = 4.45, Prob > chi2 = 0.2167

```

```
154 . estat teffects
```

Direct effects

```

> -
      Coef.      OIM      z      P>|z|      [95% Conf. Interval
> ]
-----
> -
Structural
whppain <- crhtw1 | 3.750412 .9400436 3.99 0.000 1.907961 5.59286
> 4

```

```

> -
whpsleep <-
  whppain | .6368974 .0718842 8.86 0.000 .4960069 .777787
> 8
    crhtw1 | 5.84165 1.273048 4.59 0.000 3.346521 8.33677
> 8
> -
whpel <-
  whppain | .6331053 .0936262 6.76 0.000 .4496013 .816609
> 2
  whpsleep | .3559356 .0620519 5.74 0.000 .2343162 .47755
> 5
    crhtw1 | 0 (no path)
> -
BSIanx <-
  whppain | 0 (no path)
  whpsleep | .0392335 .0058974 6.65 0.000 .0276748 .050792
> 3
    whpel | .021392 .0048781 4.39 0.000 .011831 .030952
> 9
    crhtw1 | 0 (no path)
> -

```

Indirect effects

```

> -
      Coef.      OIM
      Std. Err.      z    P>|z|    [95% Conf. Interval]
> ]
> -
Structural
  whppain <-
    crhtw1 | 0 (no path)
> -
  whpsleep <-
    whppain | 0 (no path)
    crhtw1 | 2.388628 .6566101 3.64 0.000 1.101695 3.6755
> 6
> -
  whpel <-
    whppain | .2266945 .0255861 8.86 0.000 .1765465 .276842

```

> 4	whpsleep	0 (no path)					
	crhtw1	5.303854	1.03223	5.14	0.000	3.280721	7.32698
> 8							
> -	BSIanx <-						
	whppain	.0433806	.0039182	11.07	0.000	.0357011	.051060
> 1	whpsleep	.0076142	.0013274	5.74	0.000	.0050125	.010215
> 8	whpel	0 (no path)					
	crhtw1	.4363629	.0838853	5.20	0.000	.2719507	.600775
> 1							

> -

Total effects

> -							
		OIM					
		Coef.	Std. Err.	z	P> z	[95% Conf. Interval	
>]							
> -							
	Structural						
	whppain <-						
	crhtw1	3.750412	.9400436	3.99	0.000	1.907961	5.59286
> 4							
> -							
	whpsleep <-						
	whppain	.6368974	.0718842	8.86	0.000	.4960069	.777787
> 8	crhtw1	8.230277	1.380734	5.96	0.000	5.524089	10.9364
> 7							
> -							
	whpel <-						
	whppain	.8597997	.0970593	8.86	0.000	.669567	1.05003
> 3	whpsleep	.3559356	.0620519	5.74	0.000	.2343162	.47755
> 5	crhtw1	5.303854	1.03223	5.14	0.000	3.280721	7.32698
> 8							
> -							
	BSIanx <-						


```

158 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
    > SIanxPathModel/MaleCRHTBSIanx3.stsem"
159 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
    > athModel/MaleCRHTBSIanx3.stsem", replace
160 .
161 . sem (crhtw1 -> crhtw2) (crhtw1 -> BSIanx) (anxagw1 -> crhtw1) ///
    >      (anxagw1 -> anxagw2) (crhtw2 -> BSIanx) (anxagw2 -> crhtw2) ///
    >      (anxagw2 -> BSIanx) (age -> crhtw1) (age -> crhtw2) ///
    >      (age -> anxagw2) (injselfr -> crhtw1) (injselfr -> crhtw2) ///
    >      if gender==1, nocapslatent nolog

```

Endogenous variables

Observed: **crhtw1 crhtw2 BSIanx anxagw2**

Exogenous variables

Observed: **anxagw1 age injselfr**

```

Structural equation model                Number of obs      =      339
Estimation method   = ml
Log likelihood       = -6083.1994

```

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
anxagw1	.0056082	.0012861	4.36	0.000	.0030874	.008129
age	.0127854	.0038882	3.29	0.001	.0051648	.0204061
injselfr	.4744834	.0991778	4.78	0.000	.2800985	.6688683
_cons	-1.145902	.1836751	-6.24	0.000	-1.505899	-.7859053
crhtw2 <-						
crhtw1	.7084709	.0326725	21.68	0.000	.644434	.7725078
anxagw2	.0079229	.0015435	5.13	0.000	.0048977	.0109481
age	.0049959	.0024289	2.06	0.040	.0002354	.0097565
injselfr	.1761855	.0612058	2.88	0.004	.0562243	.2961467
_cons	-.4907042	.1190071	-4.12	0.000	-.7239538	-.2574546
BSIanx <-						
crhtw1	-.7602883	.2568059	-2.96	0.003	-1.263619	-.2569579
crhtw2	1.533995	.2712084	5.66	0.000	1.002437	2.065554
anxagw2	.020947	.0080764	2.59	0.009	.0051175	.0367765
_cons	7.596574	.1638992	46.35	0.000	7.275338	7.917811
anxagw2 <-						
anxaqw1	.2518109	.023099	10.90	0.000	.2065377	.297084

injselfr	.1761855	.0612058	2.88	0.004	.0562243	.2961467
_cons	-.4907042	.1190071	-4.12	0.000	-.7239538	-.2574546
BSIanx <-						
crhtw1	-.7602883	.2568059	-2.96	0.003	-1.263619	-.2569579
crhtw2	1.533995	.2712084	5.66	0.000	1.002437	2.065554
anxagw2	.020947	.0080764	2.59	0.009	.0051175	.0367765
_cons	7.596574	.1638992	46.35	0.000	7.275338	7.917811
anxagw2 <-						
anxagw1	.2518109	.023099	10.90	0.000	.2065377	.297084
age	.1675095	.0713948	2.35	0.019	.0275784	.3074407
_cons	-5.140377	3.491899	-1.47	0.141	-11.98437	1.70362
Variance						
e.crhtw1	.6509902	.0500023			.5600078	.7567542
e.crhtw2	.2441238	.018751			.210005	.2837857
e.BSIanx	6.374519	.4896238			5.483616	7.410164
e.anxagw2	236.071	18.1325			203.0777	274.4245

LR test of model vs. saturated: chi2(6) = 4.90, Prob > chi2 = 0.5564

164 .

165 . estat gof

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(6)	4.902	model vs. saturated
p > chi2	0.556	
chi2_bs(18)	710.381	baseline vs. saturated
p > chi2	0.000	

166 . estat stable, detail

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
4.961e-06	5.0e-06
-2.481e-06 + 4.296e-06i	5.0e-06
-2.481e-06 - 4.296e-06i	5.0e-06
0	0

stability index = **4.96e-06**

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

Beta	observed			
	crhtw1	crhtw2	BSIanx	anxagw2
observed				
crhtw1	0	0	0	0
crhtw2	.7084709	0	0	.0079229
BSIanx	-.7602883	1.533995	0	.020947
anxagw2	0	0	0	0

167 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	339	.	-6083.199	20	12206.4	12282.92

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

168 . estat framework

(model contains no latent variables)

Endogenous variables on endogenous variables

Beta	observed			
	crhtw1	crhtw2	BSIanx	anxagw2
observed				
crhtw1	0	0	0	0
crhtw2	.7084709	0	0	.0079229
BSIanx	-.7602883	1.533995	0	.020947
anxagw2	0	0	0	0

Exogenous variables on endogenous variables

	observed		
Gamma	anxagw1	age	injselfr
observed			
crhtw1	.0056082	.0127854	.4744834
crhtw2	0	.0049959	.1761855
BSIanx	0	0	0
anxagw2	.2518109	.1675095	0

Covariances of error variables

	observed			
Psi	e.crhtw1	e.crhtw2	e.BSIanx	e.anxagw2
observed				
e.crhtw1	.6509902			
e.crhtw2	0	.2441238		
e.BSIanx	0	0	6.374519	
e.anxagw2	0	0	0	236.071

Intercepts of endogenous variables

	observed			
alpha	crhtw1	crhtw2	BSIanx	anxagw2
_cons	-1.145902	-.4907042	7.596574	-5.140377

Covariances of exogenous variables

	observed		
Phi	anxagw1	age	injselfr
observed			
anxagw1	1426.853		
age	134.8283	149.3591	
injselfr	7.55197	2.132935	.2499456

Means of exogenous variables

170 . estat teffects

Direct effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
anxagw1	.0056082	.0012861	4.36	0.000	.0030874	.008129
age	.0127854	.0038882	3.29	0.001	.0051648	.0204061
injselfr	.4744834	.0991778	4.78	0.000	.2800985	.6688683
crhtw2 <-						
crhtw1	.7084709	.0326725	21.68	0.000	.644434	.7725078
anxagw2	.0079229	.0015435	5.13	0.000	.0048977	.0109481
anxagw1	0	(no path)				
age	.0049959	.0024289	2.06	0.040	.0002354	.0097565
injselfr	.1761855	.0612058	2.88	0.004	.0562243	.2961467
BSIanx <-						
crhtw1	-.7602883	.2568059	-2.96	0.003	-1.263619	-.2569579
crhtw2	1.533995	.2712084	5.66	0.000	1.002437	2.065554
anxagw2	.020947	.0080764	2.59	0.009	.0051175	.0367765
anxagw1	0	(no path)				
age	0	(no path)				
injselfr	0	(no path)				
anxagw2 <-						
anxagw1	.2518109	.023099	10.90	0.000	.2065377	.297084
age	.1675095	.0713948	2.35	0.019	.0275784	.3074407

Indirect effects

	OIM				
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
Structural					
crhtw1 <-					
anxagw1	0	(no path)			
age	0	(no path)			
injselfr	0	(no path)			
crhtw2 <-					
crhtw1	0	(no path)			
anxagw2	0	(no path)			

anxagw1	.0059683	.0010143	5.88	0.000	.0039802	.0079564
age	.0103853	.0028495	3.64	0.000	.0048003	.0159702
injselfr	.3361577	.0719544	4.67	0.000	.1951296	.4771858
BSIanx <-						
crhtw1	1.086791	.0501194	21.68	0.000	.9885587	1.185023
crhtw2	0	(no path)				
anxagw2	.0121537	.0023677	5.13	0.000	.007513	.0167943
anxagw1	.0101662	.0021902	4.64	0.000	.0058734	.014459
age	.0173828	.0050624	3.43	0.001	.0074607	.0273049
injselfr	.4251879	.1264986	3.36	0.001	.1772553	.6731206
anxagw2 <-						
anxagw1	0	(no path)				
age	0	(no path)				

Total effects

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
anxagw1	.0056082	.0012861	4.36	0.000	.0030874	.008129
age	.0127854	.0038882	3.29	0.001	.0051648	.0204061
injselfr	.4744834	.0991778	4.78	0.000	.2800985	.6688683
crhtw2 <-						
crhtw1	.7084709	.0326725	21.68	0.000	.644434	.7725078
anxagw2	.0079229	.0015435	5.13	0.000	.0048977	.0109481
anxagw1	.0059683	.0010143	5.88	0.000	.0039802	.0079564
age	.0153812	.0036663	4.20	0.000	.0081954	.0225669
injselfr	.5123432	.0913414	5.61	0.000	.3333175	.691369
BSIanx <-						
crhtw1	.3265027	.261651	1.25	0.212	-.1863238	.8393293
crhtw2	1.533995	.2712084	5.66	0.000	1.002437	2.065554
anxagw2	.0331006	.0084163	3.93	0.000	.0166049	.0495964
anxagw1	.0101662	.0021902	4.64	0.000	.0058734	.014459
age	.0173828	.0050624	3.43	0.001	.0074607	.0273049
injselfr	.4251879	.1264986	3.36	0.001	.1772553	.6731206
anxagw2 <-						
anxagw1	.2518109	.023099	10.90	0.000	.2065377	.297084
age	.1675095	.0713948	2.35	0.019	.0275784	.3074407

```

171 .
172 .
173 .
174 .
175 .
176 .
177 .
178 . *-----Female Perceived risk  BSI anxiety models  (Nonrecursive model)
179 . title "Female Perceived Chornobyl related health risk explains anxiety path
    > model"

```

```

*****
> *
*****
> *
*****                                     ****
> *
*****                                     ****
> *
*****Female Perceived Chornobyl related health risk explains anxiety path mode
> 1*****
*****                                     ****
> *
*****                                     ****
> *
*****                                     31 Jul 2012    22:42:42    ****
> *
*****
> *
*****
> *

```

```

180 . title "Female perceived risk anxiety path model"

```

```
181 . // sembuilder "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/B
> SIanxPathModel/fANXcrht.stsem"
182 . // save "/Users/robertyaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
> athModel/fANXcrht.stsem", replace
183 . // fANXcrht.stsem is the sem model builder for this model
184 . title4 "nonrobust version"
```

```
185 . sem (crhtw1 -> BSianx) (whppain -> whpsleep) (whppain -> whpel) ///
> (whpsleep -> whpel) (whpsleep -> BSianx) (BSianx -> whpsleep) ///
> if gender==2, nocapslatent nolog
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)
```

Observed: **crhtw1 whppain**


```

186 .
187 . title4 "robust version"

```

```
robust version
```

```

188 . sem (crhtw1 -> BSianx) (whppain -> whpsleep) (whppain -> whpel) ///
> (whpsleep -> whpel) (whpsleep -> BSianx) (BSianx -> whpsleep) ///
> if gender==2, nocapslatent nolog vce(cluster id)
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **BSianx whpsleep whpel**

Exogenous variables

Observed: **crhtw1 whppain**

```

Structural equation model                Number of obs      =       362
Estimation method = ml
Log pseudolikelihood=  -6425.589

```

(Std. Err. adjusted for 362 clusters in id

```
> )
```

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval	
> -							
> 1							
> -							
Structural							
BSianx <-							
whpsleep		.1062593	.0118579	8.96	0.000	.0830183	.129500
> 2							
crhtw1		-.9119672	.2047813	-4.45	0.000	-1.313331	-.510603
> 2							
_cons		6.317571	.3045742	20.74	0.000	5.720616	6.91452
> 5							
> -							
whpsleep <-							
BSianx		-6.007468	1.665695	-3.61	0.000	-9.272171	-2.74276
> 5							
whppain		1.240815	.1666465	7.45	0.000	.9141937	1.56743
> 6							

```

> 2      _cons |      57.8725      12.9207      4.48      0.000      32.54839      83.1966
-----|-----
> -
whpel <-
whpsleep |      .3041124      .0591792      5.14      0.000      .1881233      .420101
> 6      whppain |      .6859588      .0754678      9.09      0.000      .5380448      .833872
> 9      _cons |      11.54272      1.742011      6.63      0.000      8.128443      14.95
> 7
-----|-----
> -
Variance
e.BSIanx |      11.84322      1.410545                        9.377577      14.9571
> 7      e.whpsleep |      1320.063      314.6174                        827.4146      2106.03
> 6      e.whpel |      701.6641      53.98677                        603.4439      815.871
> 2
-----|-----
> -

```

189 .

190 . estat gof

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

191 . estat stable

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
0 + .7989676i	.798968
0 - .7989676i	.798968
0	0

stability index = .7989676

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

192 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-6425.589	12	12875.18	12921.88

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

193 . estat framework
(model contains no latent variables)

Endogenous variables on endogenous variables

	Beta	observed		
		BSIanx	whpsleep	whpel
observed				
BSIanx		0	.1062593	0
whpsleep		-6.007468	0	0
whpel		0	.3041124	0

Exogenous variables on endogenous variables

	Gamma	observed	
		crhtw1	whppain
observed			
BSIanx		-.9119672	0
whpsleep		0	1.240815
whpel		0	.6859588

Covariances of error variables

	Psi	observed		
		e.BSIanx	e.whpsl~p	e.whpel
observed				
e.BSIanx		11.84322		
e.whpsleep		0	1320.063	
e.whpel		0	0	701.6641

Intercepts of endogenous variables

	observed		
alpha	BSIanx	whpsleep	whpel
_cons	6.317571	57.8725	11.54272

Covariances of exogenous variables

	observed	
Phi	crhtw1	whppain
observed		
crhtw1	.8899862	
whppain	1.539213	497.5733

Means of exogenous variables

	observed	
kappa	crhtw1	whppain
mean	.1330888	18.06133

194 . estat residuals

Residuals of observed variables

Mean residuals

	BSIanx	whpsleep	whpel	crhtw1	whppain
raw	0.000	-0.000	-0.000	0.000	0.000

Covariance residuals

	BSIanx	whpsleep	whpel	crhtw1	whppain
BSIanx	-0.005				
whpsleep	-0.008	0.295			
whpel	6.503	0.220	0.107		
crhtw1	0.005	0.043	0.879	0.000	
whppain	-0.032	0.190	0.058	0.000	0.000

```
195 . sem, standardize
```

```

Structural equation model          Number of obs      =       362
Estimation method  = ml
Log pseudolikelihood=  -6425.589

```

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

>)

> -					
		Robust			
Standardized	Coef.	Std. Err.	z	P> z	[95% Conf. Interval
>]					

> —							
Structural							
BSI anx <—							
whpsleep	.8991693	.0891187	10.09	0.000	.7244999	1.07383	
> 9							
crhtw1	-.2356843	.0512946	-4.59	0.000	-.3362198	-.135148	
> 8							
_cons	1.730652	.1199933	14.42	0.000	1.49547	1.96583	
> 5							

> -							
whpsleep <-							
BSIanx	- .7099322	.1959032	-3.62	0.000	-1.093895	- .325968	
> 9							
whppain	.8960261	.1126339	7.96	0.000	.6752678	1.11678	
> 4							
_cons	1.873516	.4142559	4.52	0.000	1.061589	2.68544	
> 3							

> -							
whpel <-							
whpsleep	.2730746	.0529812	5.15	0.000	.1692333	.376915	
> 9							
whppain	.444794	.0470696	9.45	0.000	.3525392	.537048	
> 8							
_cons	.3355371	.0510317	6.58	0.000	.2355168	.435557	
> 4							

> -				
Variance				
e.BSIanx	.8887701	.0923252	.7250482	1.08946
> 2				
e.whpsleep	1.383454	.3178718	.8818342	2.17041
> 4				
e.whpel	.5929169	.0391836	.5208843	.67491

> 1

> -

196 . estat teffects

Direct effects

(Std. Err. adjusted for 362 clusters in id

>)

> -

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

>]

> -

Structural

BSIanx <-

BSIanx 0 (no path)

whpsleep .1062593 .0118579 8.96 0.000 .0830183 .129500

> 2

crhtw1 -.9119672 .2047813 -4.45 0.000 -1.313331 -.510603

> 2

whppain 0 (no path)

> -

whpsleep <-

BSIanx -6.007468 1.665695 -3.61 0.000 -9.272171 -2.74276

> 5

whpsleep 0 (no path)

crhtw1 0 (no path)

whppain 1.240815 .1666465 7.45 0.000 .9141937 1.56743

> 6

> -

whpel <-

BSIanx 0 (no path)

whpsleep .3041124 .0591792 5.14 0.000 .1881233 .420101

> 6

crhtw1 0 (no path)

whppain .6859588 .0754678 9.09 0.000 .5380448 .833872

> 9

> -

Indirect effects

(Std. Err. adjusted for 362 clusters in id

>)

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval	
> -							
>]							
> -							
Structural							
BSIanx <-							
	BSIanx	-.3896295	.1080329	-3.61	0.000	-.6013701	-.177888
> 9							
	whpsleep	-.0414018	.0046202	-8.96	0.000	-.0504571	-.032346
> 4							
	crhtw1	.3553293	.1240278	2.86	0.004	.1122393	.598419
> 4							
	whppain	.0804762	.0090694	8.87	0.000	.0627005	.098251
> 9							
> -							
whpsleep <-							
	BSIanx	2.340687	.6490041	3.61	0.000	1.068662	3.61271
> 2							
	whpsleep	-.3896295	.0434801	-8.96	0.000	-.474849	-.3044
> 1							
	crhtw1	3.343984	.9407636	3.55	0.000	1.500122	5.18784
> 7							
	whppain	-.4834581	.1656325	-2.92	0.004	-.8080919	-.158824
> 3							
> -							
whpel <-							
	BSIanx	-1.115114	.3091885	-3.61	0.000	-1.721112	-.509115
> 4							
	whpsleep	-.1184912	.0132229	-8.96	0.000	-.1444075	-.092574
> 9							
	crhtw1	1.016947	.3466169	2.93	0.003	.3375906	1.69630
> 4							
	whppain	.2303216	.049038	4.70	0.000	.134209	.326434
> 2							
> -							

Total effects

(Std. Err. adjusted for 362 clusters in id

>)

		Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval	
> -							
>]							
> -							
Structural							
BSIanx <-							
	BSIanx	-.3896295	.1080329	-3.61	0.000	-.6013701	-.177888
> 9							
	whpsleep	.0648575	.0072377	8.96	0.000	.0506719	.079043
> 1							
	crhtw1	-.5566379	.1347033	-4.13	0.000	-.8206515	-.292624
> 2							
	whppain	.0804762	.0090694	8.87	0.000	.0627005	.098251
> 9							
> -							
whpsleep <-							
	BSIanx	-3.666781	1.016691	-3.61	0.000	-5.65946	-1.67410
> 3							
	whpsleep	-.3896295	.0434801	-8.96	0.000	-.474849	-.3044
> 1							
	crhtw1	3.343984	.9407636	3.55	0.000	1.500122	5.18784
> 7							
	whppain	.7573567	.0692145	10.94	0.000	.6216988	.893014
> 7							
> -							
whpel <-							
	BSIanx	-1.115114	.3091885	-3.61	0.000	-1.721112	-.509115
> 4							
	whpsleep	.1856212	.0602991	3.08	0.002	.0674372	.303805
> 3							
	crhtw1	1.016947	.3466169	2.93	0.003	.3375906	1.69630
> 4							
	whppain	.9162804	.0589534	15.54	0.000	.8007338	1.03182
> 7							
> -							

```
197 .
198 .
199 .
200 . // Another Female Model of Risk perception and anxiety
201 . title "Another Female Model of Risk perception and anxiety model3"
```

```
*****
> *
*****
> *
*****
> *
*****
> *
*****
Another Female Model of Risk perception and anxiety model3
> *
*****
> *
*****
> *
*****
31 Jul 2012    22:42:44
> *
*****
> *
*****
```

```
202 . set more off
```

```
203 . // sembuilder "/Users/robertyaaffee/Documents/data/research/chwk/phase3/sem/B
> SIanxPathModel/FemaleCRHTBSIanx3.stsem"
204 . // save "/Users/robertyaaffee/Documents/data/research/chwk/phase3/sem/BSIanxP
> athModel/FemaleCRHTBSIanx3.stsem", replace
205 . sem (crhtw1 -> crhtw2) (crhtw1 -> BSIanx) (anxagw1 -> anxagw2) (anxagw1 -> B
> SIanx) ///
> (crhtw2 -> BSIanx) (anxagw2 -> crhtw2) (anxagw2 -> BSIanx) ///
> (age -> crhtw1) (age -> BSIanx) (injselfr -> crhtw1) ///
> (injselfr -> crhtw2) (injselfr -> BSIanx) if gender==2, ///
> cov( e.crhtw1*e.anxagw2) nocapslatent nolog
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **crhtw1 crhtw2 BSIanx anxaqw2**

Exogenous variables

Observed: **anxagw1 age injselfr**

Structural equation model Number of obs = **362**
Estimation method = **ml**
Log likelihood = **-6717.4169**

		Coef.	OIM Std. Err.	z	P> z	[95% Conf. Interval	
> -							
>]							
> -							
Structural							
crhtw1 <-	age	.0162652	.0039593	4.11	0.000	.008505	.024025
> 4	injselfr	.5915209	.1007615	5.87	0.000	.3940319	.789009
> 8	_cons	-1.09145	.2019238	-5.41	0.000	-1.487213	-.695686
> 1							
> -							
crhtw2 <-	crhtw1	.542689	.0335164	16.19	0.000	.476998	.608379
> 9	anxagw2	.0057952	.0013426	4.32	0.000	.0031637	.008426
> 6	injselfr	.5453879	.0690224	7.90	0.000	.4101064	.680669
> 3	_cons	-.3423563	.055075	-6.22	0.000	-.4503014	-.234411
> 3							
> -							
BSIanx <-	crhtw1	-1.543679	.2442645	-6.32	0.000	-2.022428	-1.06492
> 9	crhtw2	1.303141	.2911649	4.48	0.000	.7324684	1.87381
> 4	anxagw2	.0233663	.0084438	2.77	0.006	.0068167	.039915
> 9	anxagw1	.0224586	.0053965	4.16	0.000	.0118816	.033035
> 6	age	.0296011	.01482	2.00	0.046	.0005543	.058647
> 8	injselfr	.7696674	.4154463	1.85	0.064	-.0445925	1.58392
> 7							

```

      _cons |    6.176989    .7699486     8.02    0.000    4.667917    7.6860
> 6 -----
> -
      anxagw2 <-
      anxagw1 |    .2963851    .0295412    10.03    0.000    .2384854    .354284
> 8 -----
      _cons |    4.97335    1.239483     4.01    0.000    2.544007    7.40269
> 3 -----
> -
Variance
      e.crhtw1 |    .7612378    .0565879                .6580288    .880634
> 8 -----
      e.crhtw2 |    .321634    .0239069                .2780306    .372075
> 7 -----
      e.BSIanx |    9.775312    .7265932                8.450089    11.3083
> 7 -----
      e.anxagw2 |   397.1976   29.52348                343.3502    459.489
> 9 -----
> -
Covariance
      e.crhtw1
      e.anxagw2 |  -1.864673    .9230059    -2.02    0.043   -3.673732   -.055615
> 1 -----
> -
LR test of model vs. saturated: chi2(5)    =      6.85, Prob > chi2 = 0.2320

```

206 .

207 . title4 "Cluster robust version of female model 3 "

```

Cluster robust version of female model 3

```

```

208 . sem (crhtw1 -> crhtw2) (crhtw1 -> BSIanx) (anxagw1 -> anxagw2) (anxagw1 -> B
> SIanx) ///
>   (crhtw2 -> BSIanx) (anxagw2 -> crhtw2) (anxagw2 -> BSIanx) ///
>   (age -> crhtw1) (age -> BSIanx) (injselr -> crhtw1) ///
>   (injselr -> crhtw2) (injselr -> BSIanx) if gender==2, ///
>   cov( e.crhtw1*e.anxagw2) nocapslatent nolog vce(cluster id)
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **crhtw1 crhtw2 BSIanx anxagw2**


```

      injselfr |   .7696674   .3841859    2.00   0.045   .0166769   1.52265
> 8      _cons |   6.176989   .7276902    8.49   0.000   4.750742   7.60323
> 5 -----
> -
      anxagw2 <-
      anxagw1 |   .2963851   .0470627    6.30   0.000   .2041439   .388626
> 4      _cons |   4.97335   .8550042    5.82   0.000   3.297573   6.64912
> 7 -----
> -
Variance
      e.crhtw1 |   .7612378   .0375773                .6910384   .838568
> 5      e.crhtw2 |   .321634   .0289258                .269656   .383631
> 1      e.BSIanx |   9.775312   .8487506                8.245638   11.5887
> 6      e.anxagw2 |  397.1976   54.76637                303.1387   520.441
> 5 -----
> -
Covariance
      e.crhtw1
      e.anxagw2 | -1.864673   1.107822   -1.68   0.092  -4.035964   .306617
> 2 -----
> -

```

209 . estat gof

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

210 . estat stable, detail

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
5.268e-09 + 9.876e-09i	1.1e-08
5.268e-09 - 9.876e-09i	1.1e-08
-1.054e-08	1.1e-08
0	0

stability index = **1.12e-08**

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

Endogenous variables on endogenous variables

Beta	observed			
	crhtw1	crhtw2	BSIanx	anxagw2
observed				
crhtw1	0	0	0	0
crhtw2	.542689	0	0	.0057952
BSIanx	-1.543679	1.303141	0	.0233663
anxagw2	0	0	0	0

211 . estat ic

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	362	.	-6717.417	21	13476.83	13558.56

Note: N=Obs used in calculating BIC; see [\[R\] BIC note](#)

212 . estat teffects

Direct effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
age	.0162652	.0039568	4.11	0.000	.0085101	.0240203
injselfr	.5915209	.0983693	6.01	0.000	.3987206	.7843211
crhtw2 <-						

crhtw1	.542689	.041659	13.03	0.000	.4610389	.624339
anxagw2	.0057952	.0011438	5.07	0.000	.0035534	.0080369
anxagw1	0	(no path)				
age	0	(no path)				
injselfr	.5453879	.0793606	6.87	0.000	.389844	.7009317
BSIanx <-						
crhtw1	-1.543679	.3061218	-5.04	0.000	-2.143667	-.943691
crhtw2	1.303141	.3378836	3.86	0.000	.6409015	1.965381
anxagw2	.0233663	.0107695	2.17	0.030	.0022585	.0444741
anxagw1	.0224586	.0064415	3.49	0.000	.0098334	.0350838
age	.0296011	.0147135	2.01	0.044	.0007631	.058439
injselfr	.7696674	.3841859	2.00	0.045	.0166769	1.522658
anxagw2 <-						
anxagw1	.2963851	.0470627	6.30	0.000	.2041439	.3886264

Indirect effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <- age	0	(no path)				
injselfr	0	(no path)				
crhtw2 <- crhtw1	0	(no path)				
anxagw2	0	(no path)				
anxagw1	.0017176	.0004132	4.16	0.000	.0009078	.0025274
age	.0088269	.0022281	3.96	0.000	.00446	.0131939
injselfr	.3210118	.0614495	5.22	0.000	.2005731	.4414506
BSIanx <- crhtw1	.7072003	.0542875	13.03	0.000	.6007988	.8136018
crhtw2	0	(no path)				
anxagw2	.0075519	.0014905	5.07	0.000	.0046306	.0104733
anxagw1	.0091637	.0031727	2.89	0.004	.0029453	.0153821
age	-.0136055	.0047423	-2.87	0.004	-.0229003	-.0043107
injselfr	.2159229	.2370304	0.91	0.362	-.2486482	.680494
anxagw2 <- anxagw1	0	(no path)				

Total effects

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
age	.0162652	.0039568	4.11	0.000	.0085101	.0240203
injselfr	.5915209	.0983693	6.01	0.000	.3987206	.7843211
crhtw2 <-						
crhtw1	.542689	.041659	13.03	0.000	.4610389	.624339
anxagw2	.0057952	.0011438	5.07	0.000	.0035534	.0080369
anxagw1	.0017176	.0004132	4.16	0.000	.0009078	.0025274
age	.0088269	.0022281	3.96	0.000	.00446	.0131939
injselfr	.8663997	.0844366	10.26	0.000	.700907	1.031892
BSIanx <-						
crhtw1	-.8364784	.3100799	-2.70	0.007	-1.444224	-.2287331
crhtw2	1.303141	.3378836	3.86	0.000	.6409015	1.965381
anxagw2	.0309182	.0112137	2.76	0.006	.0089398	.0528966
anxagw1	.0316223	.005652	5.59	0.000	.0205446	.0426999
age	.0159956	.0153056	1.05	0.296	-.0140029	.045994
injselfr	.9855903	.3346204	2.95	0.003	.3297463	1.641434
anxagw2 <-						
anxagw1	.2963851	.0470627	6.30	0.000	.2041439	.3886264

213 . estat framework

(model contains no latent variables)

Endogenous variables on endogenous variables

Beta	observed			
	crhtw1	crhtw2	BSIanx	anxagw2
observed				
crhtw1	0	0	0	0
crhtw2	.542689	0	0	.0057952
BSIanx	-1.543679	1.303141	0	.0233663
anxagw2	0	0	0	0

Exogenous variables on endogenous variables

	observed		
Gamma	anxagw1	age	injselfr
observed			
crhtw1	0	.0162652	.5915209
crhtw2	0	0	.5453879
BSIanx	.0224586	.0296011	.7696674
anxagw2	.2963851	0	0

Covariances of error variables

	observed			
Psi	e.crhtw1	e.crhtw2	e.BSIanx	e.anxagw2
observed				
e.crhtw1	.7612378			
e.crhtw2	0	.321634		
e.BSIanx	0	0	9.775312	
e.anxagw2	-1.864673	0	0	397.1976

Intercepts of endogenous variables

	observed			
alpha	crhtw1	crhtw2	BSIanx	anxagw2
_cons	-1.09145	-.3423563	6.176989	4.97335

Covariances of exogenous variables

	observed		
Phi	anxagw1	age	injselfr
observed			
anxagw1	1243.958		
age	83.75903	139.7112	
injselfr	3.711868	1.161854	.2147141

Means of exogenous variables

	observed		
kappa	anxagw1	age	injselfr
mean	22.43094	50.27072	.6878453

```
214 . sem,standardize
```

```

Structural equation model          Number of obs      =       362
Estimation method   = ml
Log pseudolikelihood= -6717.4169

```

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

>)

$$> -$$

Standardized	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval
>]					

> -

Structural							
crhtwl <-							
age		.2031411	.0486909	4.17	0.000	.1077087	.298573
> 5							
injselr		.2896163	.0473622	6.11	0.000	.196788	.382444
> 6							
_cons		-1.153257	.1941178	-5.94	0.000	-1.533721	-.772793
> 5							

> -

crhtw2 <-							
crhtw1		.5912773	.0417328	14.17	0.000	.5094825	.673072
> 1							
anxagw2		.1501434	.030483	4.93	0.000	.0903978	.20988
> 9							
injselfr		.2909367	.0410808	7.08	0.000	.2104199	.371453
> 6							
_cons		-.3941315	.0606032	-6.50	0.000	-.5129116	-.275351
> 4							

> -

BSI anx <-						
> 3	crhtw1	-.4025508	.0764379	-5.27	0.000	-.5523664
> 7	crhtw2	.3118998	.0776468	4.02	0.000	.1597148
> 9	anxagw2	.1448952	.0662603	2.19	0.029	.0150274
> 6	anxagw1	.2182586	.0607093	3.60	0.000	.0992705
> 7	age	.0964071	.0484445	1.99	0.047	.0014576
> 7	injselfr	.0982697	.047881	2.05	0.040	.0044247

```

> 1      _cons |    1.702014    .2108749     8.07    0.000    1.288707    2.11532
> -----
> -
>      anxagw2 <-
>      anxagw1 |    .4644955    .0547829     8.48    0.000    .3571231    .57186
> 8
>      _cons |    .2209893    .0387804     5.70    0.000    .1449812    .296997
> 4
> -----
> -
> Variance
>      e.crhtw1 |    .8498955    .0307949                      .7916319    .912447
> 2
>      e.crhtw2 |    .4262727    .0386032                      .3569463    .509063
> 7
>      e.BSIanx |     .74217    .0433536                      .6618822    .832196
> 8
>      e.anxagw2 |    .7842439    .0508928                      .6905788    .890613
> 2
> -----
> -
> Covariance
>      e.crhtw1
>      e.anxagw2 |   -.1072357    .0609733    -1.76    0.079    -.2267412    .012269
> 9
> -----
> -

```

215 . estat residuals

Residuals of observed variables

Mean residuals

```

>      age  injselfr |    crhtw1    crhtw2    BSIanx    anxagw2    anxagw1
> -----
>
>      raw |    0.000    -0.000    -0.000    0.000    0.000
> 0.000  0.000
> -----
> -----

```

Covariance residuals

		crhtw1	crhtw2	BSIanx	anxagw2	anxagw1
>	age injselfr					
>						
>	crhtw1	-0.006				
>	crhtw2	-0.000	0.004			
>	BSIanx	0.024	0.067	0.149		
>	anxagw2	0.667	0.616	0.716	-0.293	
>	anxagw1	0.202	1.260	1.319	-0.495	0.000
>	age	-0.095	0.563	1.353	20.223	0.000
>	0.000 injselfr	-0.002	0.002	0.016	0.470	0.000
>	0.000 0.000					

```

216 .
217 .
218 .
219 .
220 .
221 .
222 . save chwide27jul2012, replace
    file chwide27jul2012.dta saved

223 .
224 . /*
    > // male data set
    >
    > drop if gender==2
    > keep radhlw1 airw1 airw2 airw3 radtlw3 radhlw2 radhlw3 avgcumdosew3 BSIanx /
    > //
    > age avgcumdosew1 crhtw1 radtlw1 injselfr radchw1 crhtw2 avgcumdosew2 ///
    > radw1 radw2 radchw2 radchw3 radw3 crhtw3 ///
    > radtlw1 radhlw1 radtlw2 whpsleep whppain whpel
    > saveold mBSIpth7, replace
    >
    > use chwide27jul2012, clear
    >
    > drop if gender==1
    > keep id age BSIanx crhtw1 crhtw2 crhtw3 whpsleep whppain BSIanx whpel ///
    > avgcumdosew1 injselfr radhlw1 BSIdcp
    > saveold femBSIpth, replace
    > */

```

