

```

1 . sem (age -> icdxcnt) (age -> BSIsoma) (age -> WHPpa) (cumdose1 -> cumdose2)
> (cumdose1 -> cumdose3) (cumdose2 -> cumdose3) (crhrw1 -> crhrw2) (crhrw1 ->
> crhrw3) (crhrw2 -> crhrw3) (crhrw2 -> WHPsleep) (crhrw3 -> BSIsoma) (crhrw3
> -> BSIanx) (icdxcnt -> crhrw2) (icdxcnt -> WHPel) (BSIposymp -> icdxcnt) (BS
> Iposymp -> WHPsleep) (BSIsoma -> BSIposymp) (BSIsoma -> WHPel) (BSIsoma -> W
> HPPa) (WHPsleep -> BSIsoma) (WHPsleep -> WHPel) (WHPel -> WHPpa) (WHPel -> B
> SIanx) (WHPpa -> BSIsoma) (BSIanx -> BSIposymp) (BSIanx -> WHPel) (mhoutw2 -
> > BSIposymp) (mhoutw2 -> BSIsoma) (mhoutw2 -> WHPsleep) (mhoutw2 -> WHPel) (
> mhoutw2 -> BSIanx) (mhoutw2 -> mhoutw3) (mhoutw3 -> icdxcnt) (mhoutw3 -> WHP
> sleep) (mhoutw3 -> BSIanx) if gender==1, nocapslatent
(33 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **icdxcnt BSIsoma WHPpa cumdose2 cumdose3 crhrw2 crhrw3 WHPsleep
BSIanx WHPel BSIposymp mhoutw3**

Exogenous variables

Observed: **age cumdose1 crhrw1 mhoutw2**

Fitting target model:

```

Iteration 0: log likelihood = -10456.819
Iteration 1: log likelihood = -10452.977
Iteration 2: log likelihood = -10416.195
Iteration 3: log likelihood = -10413.428
Iteration 4: log likelihood = -10413.33
Iteration 5: log likelihood = -10413.329

```

```

Structural equation model                               Number of obs       =       306
Estimation method   = ml
Log likelihood       = -10413.329

```

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
icdxcnt <-						
BSIposymp	.0127461	.0042146	3.02	0.002	.0044857	.0210065
mhoutw3	-.2622091	.1242754	-2.11	0.035	-.5057844	-.0186339
age	.0411482	.007415	5.55	0.000	.0266152	.0556812
_cons	-.8322095	.3941455	-2.11	0.035	-1.60472	-.0596985
BSIsoma <-						
WHPPa	-.0750534	.0407676	-1.84	0.066	-.1549565	.0048496

crhrw3	2.874499	.361415	7.95	0.000	2.166139	3.582859
WHPsleep	.0352104	.015412	2.28	0.022	.0050034	.0654173
age	.1241689	.0256742	4.84	0.000	.0738485	.1744894
mhoutw2	1.624256	.7290406	2.23	0.026	.1953623	3.053149
_cons	6.393475	1.183275	5.40	0.000	4.074298	8.712652
WHPpa <-						
BSIsoma	.9474642	.2489602	3.81	0.000	.4595113	1.435417
WHPel	.1744694	.0268888	6.49	0.000	.1217684	.2271705
age	.0913548	.0756103	1.21	0.227	-.0568386	.2395482
_cons	-10.30891	2.965453	-3.48	0.001	-16.1211	-4.496732
cumdo~2 <-						
cumdose1	1.335744	.036396	36.70	0.000	1.264409	1.407079
_cons	.3890346	.0657484	5.92	0.000	.2601701	.517899
cumdo~3 <-						
cumdose2	1.099214	.0134829	81.53	0.000	1.072788	1.12564
cumdose1	-.0601963	.0199509	-3.02	0.003	-.0992994	-.0210932
_cons	.1980224	.0163702	12.10	0.000	.1659374	.2301074
crhrw2 <-						
icdxcnt	.0890967	.017599	5.06	0.000	.0546032	.1235902
crhrw1	.7942212	.0299407	26.53	0.000	.7355385	.8529039
_cons	-.2975337	.0466543	-6.38	0.000	-.3889744	-.206093
crhrw3 <-						
crhrw2	1.053256	.0300753	35.02	0.000	.9943092	1.112202
crhrw1	-.1185128	.029689	-3.99	0.000	-.1767022	-.0603234
_cons	-.0087911	.0155917	-0.56	0.573	-.0393503	.0217681
WHPsl~p <-						
crhrw2	4.799001	1.536594	3.12	0.002	1.787332	7.81067
BSIposymp	.3988061	.0761289	5.24	0.000	.2495962	.5480161
mhoutw3	10.33403	2.551429	4.05	0.000	5.333317	15.33474
mhoutw2	-15.22699	5.08129	-3.00	0.003	-25.18613	-5.26784
_cons	-12.74253	5.964029	-2.14	0.033	-24.43181	-1.053248
BSIanx <-						
crhrw3	.6337958	.1716023	3.69	0.000	.2974615	.9701301
WHPel	.0507849	.0094288	5.39	0.000	.0323048	.069265
mhoutw3	-.726905	.3303814	-2.20	0.028	-1.374441	-.0793694
mhoutw2	2.920186	.6237801	4.68	0.000	1.6976	4.142773
_cons	6.509132	.2732778	23.82	0.000	5.973517	7.044747
WHPel <-						
icdxcnt	3.6145	1.147067	3.15	0.002	1.36629	5.86271
BSIsoma	2.578004	.4568991	5.64	0.000	1.682498	3.47351
WHPsleep	.3355356	.0918663	3.65	0.000	.155481	.5155902

BSIanx	-4.845164	1.578799	-3.07	0.002	-7.939553	-1.750774
mhoutw2	11.39191	5.488255	2.08	0.038	.6351257	22.14869
_cons	16.48053	9.358403	1.76	0.078	-1.861598	34.82267
BSIpo~p <-						
BSIsoma	2.132349	.1050558	20.30	0.000	1.926444	2.338255
BSIanx	4.545175	.2197433	20.68	0.000	4.114486	4.975864
mhoutw2	5.062753	1.514367	3.34	0.001	2.094649	8.030858
_cons	15.22295	1.66255	9.16	0.000	11.96441	18.48149
mhoutw3 <-						
mhoutw2	1.549729	.0676943	22.89	0.000	1.417051	1.682408
_cons	.035469	.024779	1.43	0.152	-.0130969	.0840349
Variance						
e.icdxcnt	2.144149	.1758097			1.825832	2.517963
e.BSIsoma	20.632	2.736919			15.90838	26.75819
e.WHPpa	149.8066	13.20998			126.0293	178.0697
e.cumdose2	1.242024	.1004117			1.060021	1.455277
e.cumdose3	.0690909	.0055857			.0589665	.0809536
e.crhrw2	.2260229	.0183081			.1928431	.2649115
e.crhrw3	.0696476	.0056309			.0594412	.0816063
e.WHPsleep	366.5645	30.73971			311.0066	432.0473
e.BSIanx	5.740784	.5748679			4.71774	6.985676
e.WHPel	841.2953	128.2549			623.9983	1134.262
e.BSIpos~p	83.69659	6.776027			71.41591	98.08905
e.mhoutw3	.1853522	.0149848			.1581912	.2171768

LR test of model vs. saturated: chi2(79) = 90.89, Prob > chi2 = 0.1699

2 .

3 . estat stable

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
.04066116 + .6058142i	.607177
.04066116 - .6058142i	.607177
.4795589	.479559
-.3346135 + .2330921i	.407797
-.3346135 - .2330921i	.407797
.08430608 + .3651853i	.37479
.08430608 - .3651853i	.37479
-.06026648	.060266
6.716e-09	6.7e-09
-6.716e-09	6.7e-09
1.354e-16	1.4e-16

```
stability index = .6071772
All the eigenvalues lie inside the unit circle.
SEM satisfies stability condition.
```

Model	Obs	ll(null)	ll(model)	df	AIC	BIC
.	306	.	-10413.33	59	20944.66	21164.35

Fit statistic	Value	Description
Likelihood ratio		
chi2_ms(79)	90.890	model vs. saturated
p > chi2	0.170	
chi2_bs(114)	4811.536	baseline vs. saturated
p > chi2	0.000	

	OIM					
Standardized	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
icdxcnt <-						
BSIposymp	.1840088	.0602833	3.05	0.002	.0658558	.3021619
mhoutw3	-.1140066	.0535722	-2.13	0.033	-.2190062	-.009007
age	.3045933	.0515797	5.91	0.000	.2034989	.4056876
_cons	-.5102857	.2322861	-2.20	0.028	-.9655581	-.0550132
BSIsoma <-						
WHPpa	-.1946168	.105912	-1.84	0.066	-.4022005	.0129668
crhrw3	.4697118	.055539	8.46	0.000	.3608574	.5785662
WHPsleep	.1516279	.0665631	2.28	0.023	.0211666	.2820893
age	.269007	.0545066	4.94	0.000	.162176	.3758379

mhoutw2	.1059748	.0472926	2.24	0.025	.013283	.1986665
_cons	1.147358	.2249917	5.10	0.000	.7063822	1.588333
WHPpa <-						
BSIsoma	.3653869	.0938173	3.89	0.000	.1815084	.5492655
WHPel	.3597468	.0528437	6.81	0.000	.2561751	.4633184
age	.0763259	.0630857	1.21	0.226	-.0473199	.1999717
_cons	-.7134524	.1980468	-3.60	0.000	-1.101617	-.3252878
cumdo~2 <-						
cumdose1	.9027029	.0081466	110.81	0.000	.8867358	.91867
_cons	.1501961	.0264301	5.68	0.000	.0983939	.2019982
cumdo~3 <-						
cumdose2	1.029738	.0113332	90.86	0.000	1.007525	1.05195
cumdose1	-.0381097	.0126619	-3.01	0.003	-.0629266	-.0132928
_cons	.0716191	.0063054	11.36	0.000	.0592607	.0839775
crhrw2 <-						
icdxcnt	.159377	.0319694	4.99	0.000	.0967181	.2220359
crhrw1	.8090649	.0161742	50.02	0.000	.777364	.8407658
_cons	-.326348	.051963	-6.28	0.000	-.4281936	-.2245025
crhrw3 <-						
crhrw2	1.054585	.0244545	43.12	0.000	1.006655	1.102515
crhrw1	-.1208801	.0304221	-3.97	0.000	-.1805064	-.0612538
_cons	-.0096546	.0171627	-0.56	0.574	-.0432929	.0239837
WHPsl~p <-						
crhrw2	.1823304	.0580163	3.14	0.002	.0686205	.2960403
BSIposymp	.391288	.0730234	5.36	0.000	.2481648	.5344113
mhoutw3	.3053684	.0746322	4.09	0.000	.159092	.4516449
mhoutw2	-.2307031	.0764167	-3.02	0.003	-.3804771	-.080929
_cons	-.5310175	.244846	-2.17	0.030	-1.010907	-.0511282
BSIanx <-						
crhrw3	.2068859	.055515	3.73	0.000	.0980784	.3156934
WHPel	.5424181	.0959241	5.65	0.000	.3544102	.730426
mhoutw3	-.1847792	.0835299	-2.21	0.027	-.3484948	-.0210637
mhoutw2	.3806019	.0786297	4.84	0.000	.2264904	.5347133
_cons	2.333443	.1445763	16.14	0.000	2.050079	2.616807
WHPel <-						
icdxcnt	.1978527	.0627269	3.15	0.002	.0749102	.3207952
BSIsoma	.4821655	.0831494	5.80	0.000	.3191956	.6451354
WHPsleep	.2702464	.073776	3.66	0.000	.1256482	.4148447
BSIanx	-.4536374	.147713	-3.07	0.002	-.7431495	-.1641253
mhoutw2	.1390136	.0669832	2.08	0.038	.007729	.2702982
_cons	.5531537	.318731	1.74	0.083	-.0715477	1.177855

BSIpo~p <-						
BSIsoma	.5046786	.0282536	17.86	0.000	.4493025	.5600546
BSIanx	.5385114	.0264368	20.37	0.000	.4866962	.5903266
mhoutw2	.0781792	.023413	3.34	0.001	.0322907	.1240678
_cons	.6465725	.0847884	7.63	0.000	.4803903	.8127547
mhoutw3 <-						
mhoutw2	.7945856	.0174326	45.58	0.000	.7604183	.828753
_cons	.0500205	.0351395	1.42	0.155	-.0188516	.1188926
Variance						
e.icdxcnt	.8061511	.0409695			.729722	.8905852
e.BSIsoma	.6644545	.0836491			.5191661	.8504017
e.WHPpa	.7175216	.0499856			.6259457	.8224951
e.cumdose2	.1851275	.014708			.1584327	.2163201
e.cumdose3	.0090375	.0008491			.0075176	.0108647
e.crhrw2	.2719206	.0212923			.2332331	.3170253
e.crhrw3	.0840023	.0082282			.0693289	.1017812
e.WHPsleep	.6365856	.0435033			.5567844	.7278243
e.BSIanx	.7377674	.0630204			.6240358	.8722268
e.WHPel	.9477581	.1372923			.7134974	1.258933
e.BSIpos~p	.1509888	.0152769			.1238285	.1841063
e.mhoutw3	.3686337	.0277034			.3181455	.4271341

LR test of model vs. saturated: chi2(79) = 90.89, Prob > chi2 = 0.1699

```

7 . sem (age -> icdxcnt) (age -> BSIsoma) (age -> WHPpa) (cumdose1 -> cumdose2)
> (cumdose1 -> cumdose3) (cumdose2 -> cumdose3) (crhrw1 -> crhrw2) (crhrw1 ->
> crhrw3) (crhrw2 -> crhrw3) (crhrw2 -> WHPsleep) (crhrw3 -> BSIsoma) (crhrw3
> -> BSIanx) (icdxcnt -> crhrw2) (icdxcnt -> WHPel) (BSIposymp -> icdxcnt) (BS
> Iposymp -> WHPsleep) (BSIsoma -> BSIposymp) (BSIsoma -> WHPel) (BSIsoma -> W
> HPPa) (WHPsleep -> BSIsoma) (WHPsleep -> WHPel) (WHPel -> WHPpa) (WHPel -> B
> SIanx) (WHPpa -> BSIsoma) (BSIanx -> BSIposymp) (BSIanx -> WHPel) (mhoutw2 -
> > BSIposymp) (mhoutw2 -> BSIsoma) (mhoutw2 -> WHPsleep) (mhoutw2 -> WHPel) (
> mhoutw2 -> BSIanx) (mhoutw2 -> mhoutw3) (mhoutw3 -> icdxcnt) (mhoutw3 -> WHP
> sleep) (mhoutw3 -> BSIanx) if gender==1, vce(cluster id) nocapslatent
(33 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **icdxcnt BSIsoma WHPpa cumdose2 cumdose3 crhrw2 crhrw3 WHPsleep
BSIanx WHPel BSIposymp mhoutw3**

Exogenous variables

Observed: **age cumdose1 crhrw1 mhoutw2**

```
Iteration 0: log pseudolikelihood = -10456.819
Iteration 1: log pseudolikelihood = -10452.977
Iteration 2: log pseudolikelihood = -10416.195
Iteration 3: log pseudolikelihood = -10413.428
Iteration 4: log pseudolikelihood = -10413.33
Iteration 5: log pseudolikelihood = -10413.329
```

(Std. Err. adjusted for **306** clusters in id)

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icdxcnt	.0890967	.0235082	3.79	0.000	.0430215	.1351718
crhrw1	.7942212	.0353239	22.48	0.000	.7249876	.8634548
_cons	-.2975337	.0455073	-6.54	0.000	-.3867263	-.208341
crhrw3 <-						
crhrw2	1.053256	.0413136	25.49	0.000	.9722825	1.134229
crhrw1	-.1185128	.0462236	-2.56	0.010	-.2091094	-.0279162
_cons	-.0087911	.0167607	-0.52	0.600	-.0416414	.0240592
WHPsl~p <-						
crhrw2	4.799001	1.729024	2.78	0.006	1.410175	8.187826
BSIposymp	.3988061	.1016659	3.92	0.000	.1995446	.5980676
mhoutw3	10.33403	3.700849	2.79	0.005	3.080495	17.58756
mhoutw2	-15.22699	6.576366	-2.32	0.021	-28.11643	-2.337546
_cons	-12.74253	7.580364	-1.68	0.093	-27.59977	2.114711
BSIanx <-						
crhrw3	.6337958	.1632069	3.88	0.000	.3139162	.9536754
WHPel	.0507849	.0098052	5.18	0.000	.0315671	.0700027
mhoutw3	-.726905	.405481	-1.79	0.073	-1.521633	.0678233
mhoutw2	2.920186	.925817	3.15	0.002	1.105618	4.734754
_cons	6.509132	.2705811	24.06	0.000	5.978803	7.039461
WHPel <-						
icdxcnt	3.6145	1.08691	3.33	0.001	1.484196	5.744803
BSIsoma	2.578004	.5082059	5.07	0.000	1.581938	3.574069
WHPsleep	.3355356	.1017558	3.30	0.001	.136098	.5349732
BSIanx	-4.845164	1.665206	-2.91	0.004	-8.108907	-1.58142
mhoutw2	11.39191	4.000154	2.85	0.004	3.55175	19.23207
_cons	16.48053	10.00226	1.65	0.099	-3.123535	36.0846
BSIpo~p <-						
BSIsoma	2.132349	.1243815	17.14	0.000	1.888566	2.376132
BSIanx	4.545175	.2754992	16.50	0.000	4.005206	5.085143
mhoutw2	5.062753	2.048013	2.47	0.013	1.048722	9.076785
_cons	15.22295	1.664593	9.15	0.000	11.96041	18.48549
mhoutw3 <-						
mhoutw2	1.549729	.3087384	5.02	0.000	.9446133	2.154845
_cons	.035469	.0226693	1.56	0.118	-.008962	.0799
Variance						
e.icdxcnt	2.144149	.2381262			1.724733	2.665559
e.BSIsoma	20.632	2.809797			15.79863	26.94409
e.WHPpa	149.8066	21.70622			112.7706	199.0058
e.cumdose2	1.242024	.8821472			.3087199	4.996842
e.cumdose3	.0690909	.0327763			.0272656	.1750756
e.crhrw2	.2260229	.0339875			.1683277	.3034934
e.crhrw3	.0696476	.0201952			.0394538	.1229484

e.WHPsleep	366.5645	46.81275	285.395	470.8197
e.BSIanx	5.740784	.8561652	4.285735	7.689837
e.WHPel	841.2953	150.84	592.0145	1195.541
e.BSIpos~p	83.69659	10.1613	65.97303	106.1815
e.mhoutw3	.1853522	.0890423	.0722911	.4752376

8 .
9 . estat teffects, standardized

Direct effects

(Std. Err. adjusted for 306 clusters in id)

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
icdxcnt <-					
icdxcnt	0	(no path)			0
BSIsoma	0	(no path)			0
WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	0	(no path)			0
BSIposymp	.0127461	.0043555	2.93	0.003	.1840088
mhoutw3	-.2622091	.076794	-3.41	0.001	-.1140066
age	.0411482	.0079907	5.15	0.000	.3045933
crhrw1	0	(no path)			0
mhoutw2	0	(no path)			0
BSIsoma <-					
icdxcnt	0	(no path)			0
BSIsoma	0	(no path)			0
WHPpa	-.0750534	.0433954	-1.73	0.084	-.1946168
crhrw2	0	(no path)			0
crhrw3	2.874499	.4195445	6.85	0.000	.4697118
WHPsleep	.0352104	.0197967	1.78	0.075	.1516279
BSIanx	0	(no path)			0
WHPel	0	(no path)			0
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	.1241689	.0266665	4.66	0.000	.269007
crhrw1	0	(no path)			0
mhoutw2	1.624256	1.187376	1.37	0.171	.1059748
WHPpa <-					
icdxcnt	0	(no path)			0

BSIsoma	.9474642	.262458	3.61	0.000	.3653869
WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	.1744694	.0405225	4.31	0.000	.3597468
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	.0913548	.0713131	1.28	0.200	.0763259
crhrw1	0	(no path)			0
mhoutw2	0	(no path)			0
cumdo~2 <- cumdose1	1.335744	.2867051	4.66	0.000	.9027029
cumdo~3 <- cumdose2	1.099214	.094186	11.67	0.000	1.029738
cumdose1	-.0601963	.1029364	-0.58	0.559	-.0381097
crhrw2 <- icdxcnt	.0890967	.0235082	3.79	0.000	.159377
BSIsoma	0	(no path)			0
WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	0	(no path)			0
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	0	(no path)			0
crhrw1	.7942212	.0353239	22.48	0.000	.8090649
mhoutw2	0	(no path)			0
crhrw3 <- icdxcnt	0	(no path)			0
BSIsoma	0	(no path)			0
WHPpa	0	(no path)			0
crhrw2	1.053256	.0413136	25.49	0.000	1.054585
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	0	(no path)			0
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	0	(no path)			0
crhrw1	-.1185128	.0462236	-2.56	0.010	-.1208801
mhoutw2	0	(no path)			0

WHPsl~p <-					
icdxcnt	0	(no path)			0
BSIsoma	0	(no path)			0
WHPpa	0	(no path)			0
crhrw2	4.799001	1.729024	2.78	0.006	.1823304
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	0	(no path)			0
BSIposymp	.3988061	.1016659	3.92	0.000	.391288
mhoutw3	10.33403	3.700849	2.79	0.005	.3053684
age	0	(no path)			0
crhrw1	0	(no path)			0
mhoutw2	-15.22699	6.576366	-2.32	0.021	-.2307031
BSIanx <-					
icdxcnt	0	(no path)			0
BSIsoma	0	(no path)			0
WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	.6337958	.1632069	3.88	0.000	.2068859
WHPsleep	0	(no path)			0
BSIanx	0	(no path)			0
WHPel	.0507849	.0098052	5.18	0.000	.5424181
BSIposymp	0	(no path)			0
mhoutw3	-.726905	.405481	-1.79	0.073	-.1847792
age	0	(no path)			0
crhrw1	0	(no path)			0
mhoutw2	2.920186	.925817	3.15	0.002	.3806019
WHPel <-					
icdxcnt	3.6145	1.08691	3.33	0.001	.1978527
BSIsoma	2.578004	.5082059	5.07	0.000	.4821655
WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	0	(no path)			0
WHPsleep	.3355356	.1017558	3.30	0.001	.2702464
BSIanx	-4.845164	1.665206	-2.91	0.004	-.4536374
WHPel	0	(no path)			0
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	0	(no path)			0
crhrw1	0	(no path)			0
mhoutw2	11.39191	4.000154	2.85	0.004	.1390136
BSIpo~p <-					
icdxcnt	0	(no path)			0
BSIsoma	2.132349	.1243815	17.14	0.000	.5046786

WHPpa	0	(no path)			0
crhrw2	0	(no path)			0
crhrw3	0	(no path)			0
WHPsleep	0	(no path)			0
BSIanx	4.545175	.2754992	16.50	0.000	.5385114
WHPel	0	(no path)			0
BSIposymp	0	(no path)			0
mhoutw3	0	(no path)			0
age	0	(no path)			0
crhrw1	0	(no path)			0
mhoutw2	5.062753	2.048013	2.47	0.013	.0781792
mhoutw3 <- mhoutw2	1.549729	.3087384	5.02	0.000	.7945856

Indirect effects

(Std. Err. adjusted for 306 clusters in id)

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
icdxcnt <-					
icdxcnt	.0206916	.0043887	4.71	0.000	.0206916
BSIsoma	.0327114	.0020168	16.22	0.000	.1117681
WHPpa	-.0024551	.0014195	-1.73	0.084	-.0217519
crhrw2	.1427437	.0059288	24.08	0.000	.0797981
crhrw3	.1269056	.0168877	7.51	0.000	.0708548
WHPsleep	.001892	.0007105	2.66	0.008	.0278383
BSIanx	.0518728	.0054511	9.52	0.000	.0887251
WHPel	.002206	.000511	4.32	0.000	.0403009
BSIposymp	.0010183	.0001998	5.10	0.000	.0147003
mhoutw3	-.0235804	.0251079	-0.94	0.348	-.0102526
age	.0046889	.0017176	2.73	0.006	.0347087
crhrw1	.0983301	.0342153	2.87	0.004	.0559969
mhoutw2	-.1722793	.1902803	-0.91	0.365	-.0384061
BSIsoma <-					
icdxcnt	.2494903	.0719074	3.47	0.001	.0730188
BSIsoma	-.0524948	.0194821	-2.69	0.007	-.0524948
WHPpa	.0039399	.002278	1.73	0.084	.0102164
crhrw2	3.087395	.1227322	25.16	0.000	.5051371
crhrw3	-.0843985	.0263924	-3.20	0.001	-.0137913
WHPsleep	-.0042235	.0013339	-3.17	0.002	-.0181881
BSIanx	.1049197	.0122722	8.55	0.000	.0525224
WHPel	-.0070788	.0029878	-2.37	0.018	-.0378483
BSIposymp	.0155378	.0031744	4.89	0.000	.0656495

mhoutw3	.1785332	.1452519	1.23	0.219	.0227186
age	-.0027487	.0120759	-0.23	0.820	-.005955
crhrw1	2.121412	.2700532	7.86	0.000	.3535769
mhoutw2	.0239854	.2448431	0.10	0.922	.0015649
WHPpa <-					
icdxcnt	.8527376	.1864237	4.57	0.000	.0962469
BSIsoma	.3562545	.0696253	5.12	0.000	.1373885
WHPpa	-.0978486	.0565755	-1.73	0.084	-.0978486
crhrw2	4.091401	.2034989	20.11	0.000	.2581543
crhrw3	3.468876	.5438923	6.38	0.000	.218599
WHPsleep	.0912249	.0306679	2.97	0.003	.1514999
BSIanx	-.4396721	.226151	-1.94	0.052	-.0848803
WHPel	-.0394003	.0060678	-6.49	0.000	-.0812413
BSIposymp	.0472501	.0094585	5.00	0.000	.0769904
mhoutw3	1.038725	.3426185	3.03	0.002	.0509746
age	.188031	.046238	4.07	0.000	.1570979
crhrw1	2.838372	.6052285	4.69	0.000	.1824393
mhoutw2	2.832221	1.754826	1.61	0.107	.0712632
cumdo~2 <-					
cumdose1	0	(no path)			0
cumdo~3 <-					
cumdose2	0	(no path)			0
cumdose1	1.468269	.2654445	5.53	0.000	.9295472
crhrw2 <-					
icdxcnt	.0018436	.000391	4.71	0.000	.0032978
BSIsoma	.0029145	.0001797	16.22	0.000	.0178133
WHPpa	-.0002187	.0001265	-1.73	0.084	-.0034668
crhrw2	.012718	.0005282	24.08	0.000	.012718
crhrw3	.0113069	.0015046	7.51	0.000	.0112926
WHPsleep	.0001686	.0000633	2.66	0.008	.0044368
BSIanx	.0046217	.0004857	9.52	0.000	.0141407
WHPel	.0001965	.0000455	4.32	0.000	.006423
BSIposymp	.0012264	.0003939	3.11	0.002	.0316697
mhoutw3	-.0254629	.0081991	-3.11	0.002	-.0198041
age	.0040839	.0013651	2.99	0.003	.0540769
crhrw1	.0087609	.0032311	2.71	0.007	.0089246
mhoutw2	-.0153495	.0174154	-0.88	0.378	-.006121
crhrw3 <-					
icdxcnt	.0957833	.0251075	3.81	0.000	.1715543
BSIsoma	.0030697	.0001893	16.22	0.000	.0187856
WHPpa	-.0002304	.0001332	-1.73	0.084	-.003656
crhrw2	.0133953	.0005564	24.08	0.000	.0134122
crhrw3	.011909	.0015848	7.51	0.000	.011909
WHPsleep	.0001775	.0000667	2.66	0.008	.004679

BSIanx	.0048678	.0005115	9.52	0.000	.0149126
WHPel	.000207	.000048	4.32	0.000	.0067736
BSIposymp	.0012917	.0004149	3.11	0.002	.0333983
mhoutw3	-.0268189	.0086357	-3.11	0.002	-.0208851
age	.0043014	.0014122	3.05	0.002	.0570287
crhrw1	.8457455	.0566074	14.94	0.000	.8626394
mhoutw2	-.016167	.0183176	-0.88	0.377	-.0064552
WHPsl~p <-					
icdxcnt	1.083833	.2418997	4.48	0.000	.0736605
BSIsoma	1.037478	.0639647	16.22	0.000	.2409186
WHPpa	-.0778663	.0450218	-1.73	0.084	-.0468868
crhrw2	4.527275	.1880384	24.08	0.000	.1720066
crhrw3	4.024954	.5356108	7.51	0.000	.152729
WHPsleep	.0600062	.0225337	2.66	0.008	.0600062
BSIanx	1.645205	.1728873	9.52	0.000	.191249
WHPel	.0699663	.0162082	4.32	0.000	.0868695
BSIposymp	.0377454	.007131	5.29	0.000	.0370339
mhoutw3	-.8599934	.8133451	-1.06	0.290	-.0254126
age	.1663069	.0484539	3.43	0.001	.0836666
crhrw1	6.930118	1.075445	6.44	0.000	.2682198
mhoutw2	23.26511	5.820295	4.00	0.000	.3524882
BSIanx <-					
icdxcnt	.2401167	.0538072	4.46	0.000	.1403834
BSIsoma	.1201223	.0208065	5.77	0.000	.2399584
WHPpa	-.0090156	.0052128	-1.73	0.084	-.0466999
crhrw2	1.0155	.0458909	22.13	0.000	.3319015
crhrw3	.2477939	.0538145	4.60	0.000	.0808858
WHPsleep	.0181206	.0050809	3.57	0.000	.1558812
BSIanx	-.1538312	.069184	-2.22	0.026	-.1538312
WHPel	-.0093852	.0015778	-5.95	0.000	-.100241
BSIposymp	.0102872	.0019771	5.20	0.000	.0868262
mhoutw3	.2361187	.0771407	3.06	0.002	.0600214
age	.0239722	.0058746	4.08	0.000	.1037459
crhrw1	.7020521	.1051602	6.68	0.000	.233744
mhoutw2	-.7669121	.6781818	-1.13	0.258	-.0999553
WHPel <-					
icdxcnt	-.0817633	.2392083	-0.34	0.732	-.0044756
BSIsoma	-.2509979	.1139893	-2.20	0.028	-.0469443
WHPpa	-.1746498	.1009815	-1.73	0.084	-.0847014
crhrw2	6.684296	.6267866	10.66	0.000	.2045433
crhrw3	4.730659	1.049168	4.51	0.000	.1445784
WHPsleep	.0190595	.0476868	0.40	0.689	.0153509
BSIanx	1.75534	.3128724	5.61	0.000	.1643469
WHPel	-.1873874	.0316141	-5.93	0.000	-.1873874
BSIposymp	.1864432	.0370102	5.04	0.000	.1473339
mhoutw3	4.984088	1.502106	3.32	0.001	.118621

age	.4183525	.0824317	5.08	0.000	.169514
crhrw1	4.748166	1.007129	4.71	0.000	.1480122
mhoutw2	-4.10942	5.051737	-0.81	0.416	-.0501466
BSIpo~p <-					
icdxcnt	1.623373	.344316	4.71	0.000	.1124491
BSIsoma	.4340397	.0947542	4.58	0.000	.1027273
WHPpa	-.1926163	.1113696	-1.73	0.084	-.1182114
crhrw2	11.19903	.4651467	24.08	0.000	.4336646
crhrw3	9.956448	1.32493	7.51	0.000	.3850617
WHPsleep	.148436	.0557412	2.66	0.008	.151288
BSIanx	-.4754641	.2904892	-1.64	0.102	-.0563329
WHPel	.1730742	.0400939	4.32	0.000	.2190162
BSIposymp	.0798888	.0156741	5.10	0.000	.0798888
mhoutw3	-1.850014	1.969853	-0.94	0.348	-.0557179
age	.3678683	.0721192	5.10	0.000	.1886251
crhrw1	7.714541	.9063216	8.51	0.000	.3043165
mhoutw2	13.30163	2.435873	5.46	0.000	.2054044
mhoutw3 <-					
mhoutw2	0	(no path)			0

Total effects

(Std. Err. adjusted for 306 clusters in id)

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
icdxcnt <-					
icdxcnt	.0206916	.0043887	4.71	0.000	.0206916
BSIsoma	.0327114	.0020168	16.22	0.000	.1117681
WHPpa	-.0024551	.0014195	-1.73	0.084	-.0217519
crhrw2	.1427437	.0059288	24.08	0.000	.0797981
crhrw3	.1269056	.0168877	7.51	0.000	.0708548
WHPsleep	.001892	.0007105	2.66	0.008	.0278383
BSIanx	.0518728	.0054511	9.52	0.000	.0887251
WHPel	.002206	.000511	4.32	0.000	.0403009
BSIposymp	.0137643	.0044208	3.11	0.002	.1987091
mhoutw3	-.2857895	.0920244	-3.11	0.002	-.1242592
age	.0458371	.0075603	6.06	0.000	.339302
crhrw1	.0983301	.0342153	2.87	0.004	.0559969
mhoutw2	-.1722793	.1902803	-0.91	0.365	-.0384061
BSIsoma <-					
icdxcnt	.2494903	.0719074	3.47	0.001	.0730188
BSIsoma	-.0524948	.0194821	-2.69	0.007	-.0524948

WHPpa	-.0711135	.0411174	-1.73	0.084	-.1844005
crhrw2	3.087395	.1227322	25.16	0.000	.5051371
crhrw3	2.7901	.3997383	6.98	0.000	.4559206
WHPsleep	.0309868	.0186844	1.66	0.097	.1334399
BSIanx	.1049197	.0122722	8.55	0.000	.0525224
WHPel	-.0070788	.0029878	-2.37	0.018	-.0378483
BSIposymp	.0155378	.0031744	4.89	0.000	.0656495
mhoutw3	.1785332	.1452519	1.23	0.219	.0227186
age	.1214202	.0238206	5.10	0.000	.263052
crhrw1	2.121412	.2700532	7.86	0.000	.3535769
mhoutw2	1.648241	1.041185	1.58	0.113	.1075397
WHPpa <-					
icdxcnt	.8527376	.1864237	4.57	0.000	.0962469
BSIsoma	1.303719	.2560962	5.09	0.000	.5027754
WHPpa	-.0978486	.0565755	-1.73	0.084	-.0978486
crhrw2	4.091401	.2034989	20.11	0.000	.2581543
crhrw3	3.468876	.5438923	6.38	0.000	.218599
WHPsleep	.0912249	.0306679	2.97	0.003	.1514999
BSIanx	-.4396721	.226151	-1.94	0.052	-.0848803
WHPel	.1350691	.0364949	3.70	0.000	.2785054
BSIposymp	.0472501	.0094585	5.00	0.000	.0769904
mhoutw3	1.038725	.3426185	3.03	0.002	.0509746
age	.2793859	.0642282	4.35	0.000	.2334238
crhrw1	2.838372	.6052285	4.69	0.000	.1824393
mhoutw2	2.832221	1.754826	1.61	0.107	.0712632
cumdo~2 <-					
cumdose1	1.335744	.2867051	4.66	0.000	.9027029
cumdo~3 <-					
cumdose2	1.099214	.094186	11.67	0.000	1.029738
cumdose1	1.408073	.3175497	4.43	0.000	.8914375
crhrw2 <-					
icdxcnt	.0909402	.023838	3.81	0.000	.1626748
BSIsoma	.0029145	.0001797	16.22	0.000	.0178133
WHPpa	-.0002187	.0001265	-1.73	0.084	-.0034668
crhrw2	.012718	.0005282	24.08	0.000	.012718
crhrw3	.0113069	.0015046	7.51	0.000	.0112926
WHPsleep	.0001686	.0000633	2.66	0.008	.0044368
BSIanx	.0046217	.0004857	9.52	0.000	.0141407
WHPel	.0001965	.0000455	4.32	0.000	.006423
BSIposymp	.0012264	.0003939	3.11	0.002	.0316697
mhoutw3	-.0254629	.0081991	-3.11	0.002	-.0198041
age	.0040839	.0013651	2.99	0.003	.0540769
crhrw1	.8029821	.0350153	22.93	0.000	.8179895
mhoutw2	-.0153495	.0174154	-0.88	0.378	-.006121

crhrw3 <-						
icdxcnt	.0957833	.0251075	3.81	0.000		.1715543
BSIsoma	.0030697	.0001893	16.22	0.000		.0187856
WHPpa	-.0002304	.0001332	-1.73	0.084		-.003656
crhrw2	1.066651	.0417796	25.53	0.000		1.067997
crhrw3	.011909	.0015848	7.51	0.000		.011909
WHPsleep	.0001775	.0000667	2.66	0.008		.004679
BSIanx	.0048678	.0005115	9.52	0.000		.0149126
WHPel	.000207	.000048	4.32	0.000		.0067736
BSIposymp	.0012917	.0004149	3.11	0.002		.0333983
mhoutw3	-.0268189	.0086357	-3.11	0.002		-.0208851
age	.0043014	.0014122	3.05	0.002		.0570287
crhrw1	.7272327	.040752	17.85	0.000		.7417593
mhoutw2	-.016167	.0183176	-0.88	0.377		-.0064552
WHPsl~p <-						
icdxcnt	1.083833	.2418997	4.48	0.000		.0736605
BSIsoma	1.037478	.0639647	16.22	0.000		.2409186
WHPpa	-.0778663	.0450218	-1.73	0.084		-.0468868
crhrw2	9.326276	1.825574	5.11	0.000		.3543371
crhrw3	4.024954	.5356108	7.51	0.000		.152729
WHPsleep	.0600062	.0225337	2.66	0.008		.0600062
BSIanx	1.645205	.1728873	9.52	0.000		.191249
WHPel	.0699663	.0162082	4.32	0.000		.0868695
BSIposymp	.4365516	.1071592	4.07	0.000		.4283219
mhoutw3	9.474033	4.236671	2.24	0.025		.2799558
age	.1663069	.0484539	3.43	0.001		.0836666
crhrw1	6.930118	1.075445	6.44	0.000		.2682198
mhoutw2	8.038126	2.494647	3.22	0.001		.1217851
BSIanx <-						
icdxcnt	.2401167	.0538072	4.46	0.000		.1403834
BSIsoma	.1201223	.0208065	5.77	0.000		.2399584
WHPpa	-.0090156	.0052128	-1.73	0.084		-.0466999
crhrw2	1.0155	.0458909	22.13	0.000		.3319015
crhrw3	.8815897	.1520513	5.80	0.000		.2877717
WHPsleep	.0181206	.0050809	3.57	0.000		.1558812
BSIanx	-.1538312	.069184	-2.22	0.026		-.1538312
WHPel	.0413997	.008278	5.00	0.000		.4421771
BSIposymp	.0102872	.0019771	5.20	0.000		.0868262
mhoutw3	-.4907863	.3799135	-1.29	0.196		-.1247579
age	.0239722	.0058746	4.08	0.000		.1037459
crhrw1	.7020521	.1051602	6.68	0.000		.233744
mhoutw2	2.153274	.5203645	4.14	0.000		.2806465
WHPel <-						
icdxcnt	3.532736	.9184914	3.85	0.000		.1933771
BSIsoma	2.327006	.4084115	5.70	0.000		.4352213
WHPpa	-.1746498	.1009815	-1.73	0.084		-.0847014

crhrw2	6.684296	.6267866	10.66	0.000	.2045433
crhrw3	4.730659	1.049168	4.51	0.000	.1445784
WHPsleep	.3545952	.0993862	3.57	0.000	.2855973
BSIanx	-3.089824	1.357528	-2.28	0.023	-.2892905
WHPel	-.1873874	.0316141	-5.93	0.000	-.1873874
BSIposymp	.1864432	.0370102	5.04	0.000	.1473339
mhoutw3	4.984088	1.502106	3.32	0.001	.118621
age	.4183525	.0824317	5.08	0.000	.169514
crhrw1	4.748166	1.007129	4.71	0.000	.1480122
mhoutw2	7.282488	4.857997	1.50	0.134	.088867
BSIpo~p <-					
icdxcnt	1.623373	.344316	4.71	0.000	.1124491
BSIsoma	2.566389	.1582282	16.22	0.000	.6074059
WHPpa	-.1926163	.1113696	-1.73	0.084	-.1182114
crhrw2	11.19903	.4651467	24.08	0.000	.4336646
crhrw3	9.956448	1.32493	7.51	0.000	.3850617
WHPsleep	.148436	.0557412	2.66	0.008	.151288
BSIanx	4.069711	.4276678	9.52	0.000	.4821785
WHPel	.1730742	.0400939	4.32	0.000	.2190162
BSIposymp	.0798888	.0156741	5.10	0.000	.0798888
mhoutw3	-1.850014	1.969853	-0.94	0.348	-.0557179
age	.3678683	.0721192	5.10	0.000	.1886251
crhrw1	7.714541	.9063216	8.51	0.000	.3043165
mhoutw2	18.36439	3.300289	5.56	0.000	.2835836
mhoutw3 <-					
mhoutw2	1.549729	.3087384	5.02	0.000	.7945856

```
10 . estat framework
(model contains no latent variables)
```

Endogenous variables on endogenous variables

	observed				
Beta	icdxcnt	BSIsoma	WHPpa	cumdose2	cumdose3
observed					
icdxcnt	0	0	0	0	0
BSIsoma	0	0	-.0750534	0	0
WHPpa	0	.9474642	0	0	0
cumdose2	0	0	0	0	0
cumdose3	0	0	0	1.099214	0
crhrw2	.0890967	0	0	0	0
crhrw3	0	0	0	0	0
WHPsleep	0	0	0	0	0
BSIanx	0	0	0	0	0
WHPel	3.6145	2.578004	0	0	0

BSIposymp	0	2.132349	0	0	0
mhoutw3	0	0	0	0	0

Beta	observed				
	crhrw2	crhrw3	WHPsleep	BSIanx	WHPel
observed					
icdxcnt	0	0	0	0	0
BSIsoma	0	2.874499	.0352104	0	0
WHPpa	0	0	0	0	.1744694
cumdose2	0	0	0	0	0
cumdose3	0	0	0	0	0
crhrw2	0	0	0	0	0
crhrw3	1.053256	0	0	0	0
WHPsleep	4.799001	0	0	0	0
BSIanx	0	.6337958	0	0	.0507849
WHPel	0	0	.3355356	-4.845164	0
BSIposymp	0	0	0	4.545175	0
mhoutw3	0	0	0	0	0

Beta	observed	
	BSIposymp	mhoutw3
observed		
icdxcnt	.0127461	-.2622091
BSIsoma	0	0
WHPpa	0	0
cumdose2	0	0
cumdose3	0	0
crhrw2	0	0
crhrw3	0	0
WHPsleep	.3988061	10.33403
BSIanx	0	-.726905
WHPel	0	0
BSIposymp	0	0
mhoutw3	0	0

Exogenous variables on endogenous variables

	observed			
Gamma	age	cumdose1	crhrw1	mhoutw2
observed				
icdxcnt	.0411482	0	0	0
BSIsoma	.1241689	0	0	1.624256
WHPpa	.0913548	0	0	0
cumdose2	0	1.335744	0	0
cumdose3	0	-.0601963	0	0
crhrw2	0	0	.7942212	0
crhrw3	0	0	-.1185128	0
WHPsleep	0	0	0	-15.22699
BSIanx	0	0	0	2.920186
WHPel	0	0	0	11.39191
BSIposymp	0	0	0	5.062753
mhoutw3	0	0	0	1.549729

Covariances of error variables

	observed				
Psi	e.icdxcnt	e.BSIsoma	e.WHPpa	e.cumdo~2	e.cumdo~3
observed					
e.icdxcnt	2.144149				
e.BSIsoma	0	20.632			
e.WHPpa	0	0	149.8066		
e.cumdose2	0	0	0	1.242024	
e.cumdose3	0	0	0	0	.0690909
e.crhrw2	0	0	0	0	0
e.crhrw3	0	0	0	0	0
e.WHPsleep	0	0	0	0	0
e.BSIanx	0	0	0	0	0
e.WHPel	0	0	0	0	0
e.BSIposymp	0	0	0	0	0
e.mhoutw3	0	0	0	0	0

	observed				
Psi	e.crhrw2	e.crhrw3	e.WHPsl~p	e.BSIanx	e.WHPel
observed					
e.crhrw2	.2260229				
e.crhrw3	0	.0696476			
e.WHPsleep	0	0	366.5645		
e.BSIanx	0	0	0	5.740784	
e.WHPel	0	0	0	0	841.2953
e.BSIposymp	0	0	0	0	0
e.mhoutw3	0	0	0	0	0

	observed	
Psi	e.BSIpo~p	e.mhoutw3
observed		
e.BSIposymp	83.69659	
e.mhoutw3	0	.1853522

Intercepts of endogenous variables

	observed				
alpha	icdxcnt	BSIsoma	WHPpa	cumdose2	cumdose3
_cons	-.8322095	6.393475	-10.30891	.3890346	.1980224

	observed				
alpha	crhrw2	crhrw3	WHPsleep	BSIanx	WHPel
_cons	-.2975337	-.0087911	-12.74253	6.509132	16.48053

	observed	
alpha	BSIposymp	mhoutw3
_cons	15.22295	.035469

Covariances of exogenous variables

	Phi	observed			
		age	cumdose1	crhrw1	mhoutw2
observed					
	age	145.7395			
	cumdose1	2.07117	3.064096		
	crhrw1	3.510742	.1319913	.8625694	
	mhoutw2	.2511107	-.0050762	.0226603	.1321821

Means of exogenous variables

	kappa	observed			
		age	cumdose1	crhrw1	mhoutw2
	mean	48.47386	.4463778	-.1403744	.0424837

```
11 . slog close, replace
    unrecognized command: slog
    r(199);
```