

```

1 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) (crhtw2 -> crht
> w3) (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPT
> SD) (injothr -> crhtw3) (fdferw1 -> PTSDw1) (fdferw1 -> MiPTSD) (fdferw1 ->
> healthef) (goferw1 -> injselfr) (healthef -> crhtw2) (healthef -> crhtw3) (h
> ealthef -> PTSDw2) (healthef -> MiPTSD) (woman -> crhtw1) (woman -> crhtw2)
> (woman -> crhtw3) (woman -> healthef) (woman -> injselfr) (cumdose1 -> PTSDw
> 1) (cumdose1 -> cumdose2) (cumdose2 -> cumdose3) (injselfr -> crhtw1) (injse
> lfr -> crhtw2) (injselfr -> crhtw3) (injselfr -> MiPTSD) (injselfr -> injoth
> r) if gender==2, cov( e.cumdose2*e.cumdose3) nocapslatent
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)

```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 MiPTSD PTSDw1 PTSDw2 injothr healthef
injselfr cumdose2 cumdose3**

Exogenous variables

Observed: **fdferw1 goferw1 woman cumdose1**

Fitting target model:

```

Iteration 0: log likelihood = -13082.819
Iteration 1: log likelihood = -13082.789
Iteration 2: log likelihood = -13082.789

```

```

Structural equation model                               Number of obs       =       362
Estimation method   = ml
Log likelihood       = -13082.789

```

	OIM					
	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
injselfr	.6200944	.1020416	6.08	0.000	.4200964	.8200923
woman	.00395	.0015604	2.53	0.011	.0008917	.0070083
_cons	-.5463274	.1199652	-4.55	0.000	-.7814549	-.3111999
crhtw2 <-						
crhtw1	.4966621	.0311382	15.95	0.000	.4356323	.5576919
healthef	.0053704	.0011538	4.65	0.000	.0031089	.0076318
injselfr	.5280348	.0634423	8.32	0.000	.4036902	.6523795
woman	.004122	.0011752	3.51	0.000	.0018186	.0064253
_cons	-.8967527	.0812535	-11.04	0.000	-1.056007	-.7374988

crhtw3 <-						
crhtw1	-.0923206	.0207534	-4.45	0.000	-.1329965	-.0516446
crhtw2	.9423043	.0271109	34.76	0.000	.8891678	.9954407
injothr	.1150786	.0484954	2.37	0.018	.0200293	.2101279
healthef	.0017293	.0006062	2.85	0.004	.0005412	.0029173
injselfr	.1124159	.0406178	2.77	0.006	.0328065	.1920254
woman	.0012238	.0006101	2.01	0.045	.0000281	.0024194
_cons	-.350573	.0551292	-6.36	0.000	-.4586243	-.2425218
MiPTSD <-						
crhtw1	-3.433859	.7128543	-4.82	0.000	-4.831028	-2.03669
crhtw3	3.566905	.9486628	3.76	0.000	1.70756	5.42625
PTSDw1	.0439002	.0173977	2.52	0.012	.0098013	.0779992
PTSDw2	.2447084	.0691501	3.54	0.000	.1091766	.3802402
healthef	.0510452	.0206098	2.48	0.013	.0106508	.0914397
injselfr	4.013214	1.412112	2.84	0.004	1.245525	6.780902
fdferw1	.0391754	.0154171	2.54	0.011	.0089584	.0693924
_cons	39.99789	1.859341	21.51	0.000	36.35365	43.64213
PTSDw1 <-						
fdferw1	.168436	.0445324	3.78	0.000	.081154	.2557179
cumdose1	11.94243	3.066746	3.89	0.000	5.931721	17.95314
_cons	7.677188	2.485257	3.09	0.002	2.806174	12.5482
PTSDw2 <-						
PTSDw1	.0645792	.0124924	5.17	0.000	.0400945	.0890639
healthef	.037285	.0136543	2.73	0.006	.0105231	.0640468
_cons	-.2571743	1.047878	-0.25	0.806	-2.310978	1.79663
injothr <-						
injselfr	.4746775	.0332963	14.26	0.000	.4094179	.5399371
_cons	.5132743	.0276148	18.59	0.000	.4591504	.5673983
healt~f <-						
fdferw1	.0772755	.0338094	2.29	0.022	.0110102	.1435408
woman	.599946	.0421943	14.22	0.000	.5172468	.6826453
_cons	28.69494	2.976987	9.64	0.000	22.86015	34.52973
injse~r <-						
goferw1	.0023167	.0006807	3.40	0.001	.0009825	.0036509
woman	.0021098	.0008115	2.60	0.009	.0005192	.0037004
_cons	.4842527	.0552466	8.77	0.000	.3759714	.592534
cumdo~2 <-						
cumdose1	2.188894	.0649526	33.70	0.000	2.061589	2.316199
_cons	.1613576	.0418234	3.86	0.000	.0793853	.2433299
cumdo~3 <-						
cumdose2	1.231235	.0130516	94.34	0.000	1.205654	1.256816

_cons	.0990387	.0195777	5.06	0.000	.0606671	.1374104
Variance						
e.crhtw1	.7800055	.0579774			.6742615	.9023333
e.crhtw2	.2735126	.02033			.236433	.3164074
e.crhtw3	.0712263	.0052942			.0615703	.0823967
e.MiPTSD	106.2418	7.896894			91.83881	122.9037
e.PTSDw1	1008.937	74.99371			872.1573	1167.168
e.PTSDw2	61.88182	4.599639			53.4926	71.5867
e.injothr	.0861711	.006405			.074489	.0996853
e.healthef	560.0518	41.62833			484.1266	647.8844
e.injselfr	.2005192	.0149045			.1733352	.2319665
e.cumdose2	.4605614	.0342333			.3981239	.532791
e.cumdose3	.0890991	.0067161			.076862	.1032845
Covariance						
e.cumdose2						
e.cumdose3	.0427649	.0124315	3.44	0.001	.0183996	.0671303

LR test of model vs. saturated: $\chi^2(68) = 81.91$, Prob > $\chi^2 = 0.1198$

2 .

```
3 . sem (crhtw1 -> crhtw2) (crhtw1 -> crhtw3) (crhtw1 -> MiPTSD) (crhtw2 -> crhtw3) (crhtw3 -> MiPTSD) (PTSDw1 -> PTSDw2) (PTSDw1 -> MiPTSD) (PTSDw2 -> MiPTSD) (injothr -> crhtw3) (fdferw1 -> PTSDw1) (fdferw1 -> MiPTSD) (fdferw1 -> healthef) (goferw1 -> injselfr) (healthef -> crhtw2) (healthef -> crhtw3) (healthef -> PTSDw2) (healthef -> MiPTSD) (woman -> crhtw1) (woman -> crhtw2) (woman -> crhtw3) (woman -> healthef) (woman -> injselfr) (cumdose1 -> PTSDw1) (cumdose1 -> cumdose2) (cumdose2 -> cumdose3) (injselfr -> crhtw1) (injselfr -> crhtw2) (injselfr -> crhtw3) (injselfr -> MiPTSD) (injselfr -> injothr) if gender==2, vce(cluster id) cov( e.cumdose2*e.cumdose3) nocapslatent
(1 observations with missing values excluded;
specify option 'method(mlmv)' to use all observations)
```

Endogenous variables

Observed: **crhtw1 crhtw2 crhtw3 MiPTSD PTSDw1 PTSDw2 injothr healthef injselfr cumdose2 cumdose3**

Exogenous variables

Observed: **fdferw1 goferw1 woman cumdose1**

Fitting target model:

```
Iteration 0: log pseudolikelihood = -13082.819
Iteration 1: log pseudolikelihood = -13082.789
Iteration 2: log pseudolikelihood = -13082.789
```

Structural equation model

Number of obs

=

362

Estimation method = ml

Log pseudolikelihood= -13082.789

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

	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Structural						
crhtw1 <-						
injselfr	.6200944	.0952207	6.51	0.000	.4334653	.8067235
woman	.00395	.0015425	2.56	0.010	.0009268	.0069732
_cons	-.5463274	.1121438	-4.87	0.000	-.7661253	-.3265296
crhtw2 <-						
crhtw1	.4966621	.0378379	13.13	0.000	.4225011	.5708231
healthef	.0053704	.0011006	4.88	0.000	.0032132	.0075276
injselfr	.5280348	.0714051	7.39	0.000	.3880834	.6679863
woman	.004122	.0011316	3.64	0.000	.001904	.0063399
_cons	-.8967527	.0899003	-9.97	0.000	-1.072954	-.7205513
crhtw3 <-						
crhtw1	-.0923206	.0297358	-3.10	0.002	-.1506017	-.0340394
crhtw2	.9423043	.0352957	26.70	0.000	.873126	1.011483
injothr	.1150786	.0455472	2.53	0.012	.0258078	.2043495
healthef	.0017293	.0006304	2.74	0.006	.0004938	.0029648
injselfr	.1124159	.0451043	2.49	0.013	.0240131	.2008187
woman	.0012238	.0006315	1.94	0.053	-.000014	.0024615
_cons	-.350573	.0627999	-5.58	0.000	-.4736586	-.2274875
MiPTSD <-						
crhtw1	-3.433859	.7949584	-4.32	0.000	-4.991949	-1.875769
crhtw3	3.566905	.8958233	3.98	0.000	1.811123	5.322686
PTSDw1	.0439002	.0197735	2.22	0.026	.0051449	.0826556
PTSDw2	.2447084	.085389	2.87	0.004	.0773491	.4120677
healthef	.0510452	.0171199	2.98	0.003	.0174909	.0845995
injselfr	4.013214	1.304467	3.08	0.002	1.456505	6.569922
fdferw1	.0391754	.0185666	2.11	0.035	.0027855	.0755653
_cons	39.99789	1.399355	28.58	0.000	37.25521	42.74058
PTSDw1 <-						
fdferw1	.168436	.0498099	3.38	0.001	.0708104	.2660615
cumdose1	11.94243	4.684462	2.55	0.011	2.761055	21.12381
_cons	7.677188	2.22312	3.45	0.001	3.319954	12.03442
PTSDw2 <-						
PTSDw1	.0645792	.0152186	4.24	0.000	.0347513	.094407
healthef	.037285	.0117698	3.17	0.002	.0142165	.0603534

_cons	-.2571743	.7522769	-0.34	0.732	-1.73161	1.217261
injothr <- injselfr _cons	.4746775 .5132743	.0475909 .0470845	9.97 10.90	0.000 0.000	.3814011 .4209903	.5679538 .6055583
healt~f <- fdferw1 woman _cons	.0772755 .599946 28.69494	.0352267 .049076 3.75406	2.19 12.22 7.64	0.028 0.000 0.000	.0082325 .5037588 21.33712	.1463185 .6961332 36.05276
injse~r <- goferw1 woman _cons	.0023167 .0021098 .4842527	.0006762 .0008878 .060146	3.43 2.38 8.05	0.001 0.017 0.000	.0009915 .0003697 .3663686	.003642 .0038499 .6021368
cumdo~2 <- cumdose1 _cons	2.188894 .1613576	.0836046 .0418662	26.18 3.85	0.000 0.000	2.025032 .0793013	2.352756 .2434139
cumdo~3 <- cumdose2 _cons	1.231235 .0990387	.0359156 .0305132	34.28 3.25	0.000 0.001	1.160842 .039234	1.301628 .1588434
Variance						
e.crhtw1	.7800055	.0412437			.7032171	.8651788
e.crhtw2	.2735126	.0257737			.2273875	.3289941
e.crhtw3	.0712263	.0103979			.0535032	.0948204
e.MiPTSD	106.2418	11.502			85.92952	131.3556
e.PTSDw1	1008.937	88.86986			848.9616	1199.058
e.PTSDw2	61.88182	25.07611			27.96625	136.9279
e.injothr	.0861711	.0074445			.0727486	.1020701
e.healthef	560.0518	53.47957			464.4582	675.3203
e.injselfr	.2005192	.0094151			.1828895	.2198483
e.cumdose2	.4605614	.2559617			.1549614	1.368836
e.cumdose3	.0890991	.0336145			.0425344	.1866408
Covariance						
e.cumdose2						
e.cumdose3	.0427649	.07504	0.57	0.569	-.1043107	.1898406

PTSDw2 <-						
PTSDw1	.2600494	.0421383	6.17	0.000	.1774598	.342639
healthef	.1373648	.0318197	4.32	0.000	.0749994	.1997302
_cons	-.0311746	.0877683	-0.36	0.722	-.2031974	.1408481
injothr <-						
injselfr	.5996347	.0407991	14.70	0.000	.5196699	.6795995
_cons	1.399289	.185675	7.54	0.000	1.035372	1.763205
healt~f <-						
fdferw1	.0961542	.0434946	2.21	0.027	.0109063	.1814021
woman	.5981679	.0438637	13.64	0.000	.5121966	.6841392
_cons	.9441424	.1423155	6.63	0.000	.6652091	1.223076
injse~r <-						
goferw1	.1806199	.0521693	3.46	0.001	.0783698	.2828699
woman	.1379739	.057879	2.38	0.017	.0245332	.2514146
_cons	1.045061	.1426873	7.32	0.000	.7653993	1.324723
cumdo~2 <-						
cumdose1	.8708002	.0593677	14.67	0.000	.7544416	.9871587
_cons	.1168935	.0267841	4.36	0.000	.0643977	.1693893
cumdo~3 <-						
cumdose2	.9679574	.0325622	29.73	0.000	.9041368	1.031778
_cons	.0564055	.0184463	3.06	0.002	.0202513	.0925596
Variance						
e.crhtw1	.8764243	.0332042			.8137028	.9439804
e.crhtw2	.361058	.0350888			.2984382	.4368171
e.crhtw3	.0906404	.0140939			.0668292	.1229354
e.MiPTSD	.7377792	.0460666			.6527965	.8338252
e.PTSDw1	.9142927	.0364755			.8455256	.9886528
e.PTSDw2	.9093073	.0236739			.8640713	.9569115
e.injothr	.6404383	.0489291			.5513736	.7438898
e.healthef	.606307	.0506772			.5146907	.7142313
e.injselfr	.9338891	.023672			.8886266	.9814571
e.cumdose2	.2417071	.1033948			.1045133	.5589939
e.cumdose3	.0289005	.009104			.0155872	.053585
Covariance						
e.cumdose2						
e.cumdose3	.2111093	.3910931	0.54	0.589	-.5554192	.9776378

6 . estat teffects, standardized

Direct effects

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

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
crhtw1 <-					
injselfr	.6200944	.0952207	6.51	0.000	.3045766
goferw1	0	(no path)			0
woman	.00395	.0015425	2.56	0.010	.1268773
crhtw2 <-					
crhtw1	.4966621	.0378379	13.13	0.000	.5383348
healthef	.0053704	.0011006	4.88	0.000	.1875303
injselfr	.5280348	.0714051	7.39	0.000	.2811206
fdferw1	0	(no path)			0
goferw1	0	(no path)			0
woman	.004122	.0011316	3.64	0.000	.1435099
crhtw3 <-					
crhtw1	-.0923206	.0297358	-3.10	0.002	-.0982495
crhtw2	.9423043	.0352957	26.70	0.000	.9251918
injothr	.1150786	.0455472	2.53	0.012	.0476187
healthef	.0017293	.0006304	2.74	0.006	.059289
injselfr	.1124159	.0451043	2.49	0.013	.0587623
fdferw1	0	(no path)			0
goferw1	0	(no path)			0
woman	.0012238	.0006315	1.94	0.053	.0418327
MiPTSD <-					
crhtw1	-3.433859	.7949584	-4.32	0.000	-.2699539
crhtw2	0	(no path)			0
crhtw3	3.566905	.8958233	3.98	0.000	.2634914
PTSDw1	.0439002	.0197735	2.22	0.026	.1215267
PTSDw2	.2447084	.085389	2.87	0.004	.168225
injothr	0	(no path)			0
healthef	.0510452	.0171199	2.98	0.003	.1292821
injselfr	4.013214	1.304467	3.08	0.002	.1549666
fdferw1	.0391754	.0185666	2.11	0.035	.1234591
goferw1	0	(no path)			0
woman	0	(no path)			0
cumdose1	0	(no path)			0
PTSDw1 <-					
fdferw1	.168436	.0498099	3.38	0.001	.1917519

cumdose1	11.94243	4.684462	2.55	0.011	.1974223
PTSDw2 <-					
PTSDw1	.0645792	.0152186	4.24	0.000	.2600494
healthef	.037285	.0117698	3.17	0.002	.1373648
fdferw1	0	(no path)			0
woman	0	(no path)			0
cumdose1	0	(no path)			0
injothr <-					
injselfr	.4746775	.0475909	9.97	0.000	.5996347
goferw1	0	(no path)			0
woman	0	(no path)			0
healt~f <-					
fdferw1	.0772755	.0352267	2.19	0.028	.0961542
woman	.599946	.049076	12.22	0.000	.5981679
injse~r <-					
goferw1	.0023167	.0006762	3.43	0.001	.1806199
woman	.0021098	.0008878	2.38	0.017	.1379739
cumdo~2 <-					
cumdose1	2.188894	.0836046	26.18	0.000	.8708002
cumdo~3 <-					
cumdose2	1.231235	.0359156	34.28	0.000	.9679574
cumdose1	0	(no path)			0

Indirect effects

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

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
crhtw1 <-					
injselfr	0	(no path)			0
goferw1	.0014366	.0004874	2.95	0.003	.0550126
woman	.0013083	.0005764	2.27	0.023	.0420236
crhtw2 <-					
crhtw1	0	(no path)			0
healthef	0	(no path)			0
injselfr	.3079774	.0472925	6.51	0.000	.1639642
fdferw1	.000415	.0002228	1.86	0.062	.0180318
goferw1	.0019368	.0006232	3.11	0.002	.0803912

woman	.0069476	.0011961	5.81	0.000	.2418872
crhtw3 <-					
crhtw1	.4680068	.0356548	13.13	0.000	.498063
crhtw2	0	(no path)			0
injothr	0	(no path)			0
healthef	.0050605	.0010371	4.88	0.000	.1735015
injselfr	.7851556	.0777521	10.10	0.000	.4104181
fdferw1	.0005247	.0002762	1.90	0.057	.0223838
goferw1	.0020794	.0006671	3.12	0.002	.0847433
woman	.0113353	.0013707	8.27	0.000	.3874839
MiPTSD <-					
crhtw1	1.340037	.143101	9.36	0.000	.1053474
crhtw2	3.36111	.1258964	26.70	0.000	.2437801
crhtw3	0	(no path)			0
PTSDw1	.0158031	.0037241	4.24	0.000	.0437468
PTSDw2	0	(no path)			0
injothr	.4104745	.1624625	2.53	0.012	.0125471
healthef	.0333425	.0053224	6.26	0.000	.0844465
injselfr	1.072236	.3710251	2.89	0.004	.0414034
fdferw1	.0165773	.0052721	3.14	0.002	.0522424
goferw1	.0117816	.0041754	2.82	0.005	.0354683
woman	.0713063	.0132384	5.39	0.000	.1800621
cumdose1	.7130027	.3896804	1.83	0.067	.0326287
PTSDw1 <-					
fdferw1	0	(no path)			0
cumdose1	0	(no path)			0
PTSDw2 <-					
PTSDw1	0	(no path)			0
healthef	0	(no path)			0
fdferw1	.0137587	.0045143	3.05	0.002	.0630732
woman	.022369	.0072657	3.08	0.002	.0821672
cumdose1	.7712326	.3614408	2.13	0.033	.0513396
injothr <-					
injselfr	0	(no path)			0
goferw1	.0010997	.0003532	3.11	0.002	.1083059
woman	.0010015	.0004303	2.33	0.020	.0827339
healt~f <-					
fdferw1	0	(no path)			0
woman	0	(no path)			0
injse~r <-					
goferw1	0	(no path)			0
woman	0	(no path)			0

cumdo~2 <- cumdose1	0 (no path)	0
cumdo~3 <- cumdose2 cumdose1	0 (no path) 2.695043 .1392837 19.35 0.000	0 .8428975

Total effects

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

	Coef.	Robust Std. Err.	z	P> z	Std. Coef.
Structural					
crhtw1 <- injselrfr	.6200944	.0952207	6.51	0.000	.3045766
goferw1	.0014366	.0004874	2.95	0.003	.0550126
woman	.0052583	.0015796	3.33	0.001	.1689009
crhtw2 <- crhtw1	.4966621	.0378379	13.13	0.000	.5383348
healthef	.0053704	.0011006	4.88	0.000	.1875303
injselrfr	.8360122	.0860376	9.72	0.000	.4450848
fdferw1	.000415	.0002228	1.86	0.062	.0180318
goferw1	.0019368	.0006232	3.11	0.002	.0803912
woman	.0110695	.0014819	7.47	0.000	.385397
crhtw3 <- crhtw1	.3756863	.0401191	9.36	0.000	.3998134
crhtw2	.9423043	.0352957	26.70	0.000	.9251918
injothr	.1150786	.0455472	2.53	0.012	.0476187
healthef	.0067898	.0012626	5.38	0.000	.2327905
injselrfr	.8975716	.09487	9.46	0.000	.4691804
fdferw1	.0005247	.0002762	1.90	0.057	.0223838
goferw1	.0020794	.0006671	3.12	0.002	.0847433
woman	.0125591	.0014658	8.57	0.000	.4293165
MiPTSD <- crhtw1	-2.093822	.802422	-2.61	0.009	-.1646064
crhtw2	3.36111	.1258964	26.70	0.000	.2437801
crhtw3	3.566905	.8958233	3.98	0.000	.2634914
PTSDw1	.0597033	.019749	3.02	0.003	.1652735
PTSDw2	.2447084	.085389	2.87	0.004	.168225
injothr	.4104745	.1624625	2.53	0.012	.0125471
healthef	.0843878	.0178629	4.72	0.000	.2137286
injselrfr	5.085449	1.357681	3.75	0.000	.19637

fdferw1	.0557527	.017631	3.16	0.002	.1757015
goferw1	.0117816	.0041754	2.82	0.005	.0354683
woman	.0713063	.0132384	5.39	0.000	.1800621
cumdose1	.7130027	.3896804	1.83	0.067	.0326287
PTSDw1 <-					
fdferw1	.168436	.0498099	3.38	0.001	.1917519
cumdose1	11.94243	4.684462	2.55	0.011	.1974223
PTSDw2 <-					
PTSDw1	.0645792	.0152186	4.24	0.000	.2600494
healthef	.037285	.0117698	3.17	0.002	.1373648
fdferw1	.0137587	.0045143	3.05	0.002	.0630732
woman	.022369	.0072657	3.08	0.002	.0821672
cumdose1	.7712326	.3614408	2.13	0.033	.0513396
injothr <-					
injselfr	.4746775	.0475909	9.97	0.000	.5996347
goferw1	.0010997	.0003532	3.11	0.002	.1083059
woman	.0010015	.0004303	2.33	0.020	.0827339
healt~f <-					
fdferw1	.0772755	.0352267	2.19	0.028	.0961542
woman	.599946	.049076	12.22	0.000	.5981679
injse~r <-					
goferw1	.0023167	.0006762	3.43	0.001	.1806199
woman	.0021098	.0008878	2.38	0.017	.1379739
cumdo~2 <-					
cumdose1	2.188894	.0836046	26.18	0.000	.8708002
cumdo~3 <-					
cumdose2	1.231235	.0359156	34.28	0.000	.9679574
cumdose1	2.695043	.1392837	19.35	0.000	.8428975

7 . estat stable

Stability analysis of simultaneous equation systems

Eigenvalue stability condition

Eigenvalue	Modulus
-.000115	.000115
5.716e-09 + .00011499<i>i</i>	.000115
5.716e-09 - .00011499<i>i</i>	.000115
.00011498	.000115
0	0
0	0
0	0
0	0
0	0
0	0
0	0

stability index = **.000115**

All the eigenvalues lie inside the unit circle.

SEM satisfies stability condition.

8 . estat gof

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