

```

1 . est clear

2 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/data/ox
   /Users/robertyaffee/Documents/data/research/chwk/phase3/data/ox

3 .

4 . use chwide6apr2012femmes, clear

5 .

6 . title(Cumulative female models using radhlw3 as the dependent variable)

```

```

*****
> *
*****
> *
*****
> *
*****
> *
(Cumulative
> *
*****
female
> *
*****
models
> *
*****
using
> *
*****
radhlw3
> *
*****
as
> *
*****
the
> *
*****
dependent
> *
*****
variable)
> *
*****
> *
*****
9 Apr 2012 16:13:20
> *
*****
> *
*****
> *

```

```
7 . set more off
```

```
8 . subtitle "Wave 1 females radhlw3 "
```

```

                                Date and time:   9 Apr 2012   16:13:20
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide6apr2012femmes.
> dta

                                Stata version:   12.1
                                Operating system: MacOSX   10.6.8   on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory

```

Wave 1 females radhlw3

```

9 . des occ4w1 childw1 shhlw1 smokw1 CSsocspt lBSItotal BSIphanx WHPsociso HP2hm
> care HP2probsoc ///
> beerw1 liqw1 mhoutw1 goferw1 fdferw1 injothr icdx1nr10 icdx1nr14 icdx3nr2 /
> //
> ecprw1 polprw1 radw1 radtlw1 healthef dafter chsize

```

variable name	storage type	display format	value label	variable label
occ4w1	byte	%15.0g	LABJ	precision prod mechan craft construction in 1986
childw1	byte	%8.0g		number of children in 1986
shhlw1	byte	%8.0g		Percentage of strains and hassles related to health in 1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
CSsocspt	byte	%9.0g		Coping social support subscale
lBSItotal	float	%9.0g		Ln(bsItotal)
BSIphanx	byte	%9.0g		Basic symptom inventory phobic anxiety subscale
WHPsociso	float	%9.0g		Wtd Health Profile Social Isolation Pt 1 subscale
HP2hmcare	byte	%9.0g	hp2fmt	Hlth profile Pt2: Home cleaning, cooking and repairs
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
beerw1	byte	%8.0g		nuber of beers per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in

				1976-1986
mhoutw1	byte	%8.0g		number of medical visits for a mental health condition per year 1976-1986
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
injothr	byte	%9.0g	inj	Was anyone u know injured by Chornobyl accident?
icdx1nr10	byte	%8.0g		icdx1nr==486 pneumonia
icdx1nr14	byte	%8.0g		icdx1nr==535 gastritis & duodenitis
icdx3nr2	byte	%8.0g		icdx3nr==thyrotoxicosis
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
radw1	byte	%8.0g		believed % of the radioactively contaminated area in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)
dafter	int	%8.0g		* how many days lapsed after Chornobyl accident before you heard about the acciden
chsize	byte	%8.0g		* the radioactive fallout from chornobyl affected more people than the radioactive

```

10 . regress radhlw3 age occ4w1 childw1 shhlw1 smokw1 CSSocspt lBSItotal BSIphanx
> WHPsociso HP2hmcare HP2probsoc ///
> beerw1 liqw1 mhoutw1 goferw1 fdferw1 injothr icdx1nr10 icdx1nr14 icdx3nr2 /
> //
> ecprw1 polprw1 radw1 radtlw1 healthef dafter chsize if gender==2, beta

```

Source	SS	df	MS	Number of obs =	258
Model	188561.344	27	6983.75347	F(27, 230) =	16.04
Residual	100155.559	230	435.458954	Prob > F =	0.0000
				R-squared =	0.6531
				Adj R-squared =	0.6124
				Root MSE =	20.868
Total	288716.903	257	1123.41207		

radhlw3	Coef.	Std. Err.	t	P> t	Beta
age	-.0519748	.197055	-0.26	0.792	-.0173281
occ4w1	18.78242	6.231123	3.01	0.003	.1271934
childw1	1.708567	2.030402	0.84	0.401	.0481586
shhlw1	.0893329	.0433028	2.06	0.040	.0907744
smokw1	.2417048	.0863174	2.80	0.006	.1177668
CSsocspt	.8208942	.2481855	3.31	0.001	.1410578
lBSItotal	-6.696292	8.101661	-0.83	0.409	-.0611802
BSIphanx	1.227881	.6277602	1.96	0.052	.1228131
WHPsociso	.2239297	.0832289	2.69	0.008	.1350886
HP2hmcare	-14.16171	3.474608	-4.08	0.000	-.2027765
HP2probsoc	17.76854	4.409342	4.03	0.000	.2130793
beerw1	.5376221	.2175558	2.47	0.014	.1020073
liqw1	3.641821	1.275861	2.85	0.005	.1328589
mhoutw1	5.103917	1.767329	2.89	0.004	.1230329
goferw1	-.1855694	.0568556	-3.26	0.001	-.2002161
fdferw1	.1371401	.0524126	2.62	0.009	.1567701
injothr	19.49397	3.771423	5.17	0.000	.2303408
icdx1nr10	-77.121	23.98984	-3.21	0.001	-.1432495
icdx1nr14	-20.68213	8.313892	-2.49	0.014	-.1004466
icdx3nr2	-29.72314	9.041441	-3.29	0.001	-.1339136
ecprw1	.0178597	.0504657	0.35	0.724	.0182304
polprw1	.213913	.0452141	4.73	0.000	.2251832
radw1	-.1855987	.0389341	-4.77	0.000	-.2155213
radtlw1	.1500814	.0401903	3.73	0.000	.1675499
healthef	.2592128	.05006	5.18	0.000	.2306811
dafter	.0493589	.3055503	0.16	0.872	.0068217
chsize	.1866962	.0523065	3.57	0.000	.1570183
_cons	-13.88561	32.95378	-0.42	0.674	.

11 . cap predict frstdlwlp3, rstandard

12 . extremes frstdlwlp3 // no outliers whose abs value is greater than 3.5

obs:	frstdlw~3
339.	-2.780305
288.	-2.545798
113.	-2.316017
140.	-2.282005
326.	-2.156141

75.	1.833954
191.	1.924192
324.	1.990147
249.	2.01026
302.	3.296286

13 . swilk frstdlwlp3

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
frstdlwlp3	258	0.99247	1.404	0.791	0.21440

14 . estat hettest

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance

Variables: fitted values of radhlw3

chi2(1) = 0.76

Prob > chi2 = 0.3844

15 . estat vif

Variable	VIF	1/VIF
lBSItotal	3.63	0.275280
age	2.86	0.349448
BSIphanx	2.61	0.382570
goferw1	2.49	0.400814
fdferw1	2.38	0.420152
childw1	2.17	0.460498
HP2probsoc	1.85	0.539447
ecprw1	1.76	0.568377
WHPsociso	1.67	0.598291
HP2hmcare	1.64	0.609340
polprw1	1.50	0.665779
liqw1	1.44	0.696184
radw1	1.36	0.737877
radtlw1	1.33	0.749201
injothr	1.32	0.759492
icdx1nr10	1.32	0.759590
healthef	1.32	0.759946
shhlw1	1.28	0.779004
chsize	1.28	0.779352
CSsocspt	1.21	0.829283

mhoutw1	1.20	0.831007
dafter	1.18	0.845768
occ4w1	1.18	0.847064
smokw1	1.17	0.852714
beerw1	1.13	0.885168
icdx3nr2	1.10	0.908950
icdx1nr14	1.08	0.925095
Mean VIF	1.65	

16 . coldiag2

Condition number using scaled variables = **140.65**

Condition Indexes and Variance-Decomposition Proportions

```

condition
  index      _cons      age      occ4w1      childw1      shhlw1      smokw1
> CSSocspt  lBSItotal  BSIphanx  WHPsociso  HP2hmcare  HP2probsoc  beerw1
>   liqw1    mhoutw1    goferw1    fdferw1    injothr    icdx1nr10  icdx1nr14
>   icdx3nr2
1   1.00      0.00      0.00      0.00      0.00      0.00      0.00
>   0.00      0.00      0.00      0.00      0.00      0.00      0.00
>   0.00      0.00      0.00      0.00      0.00      0.00      0.00
>   0.00
2   3.18      0.00      0.00      0.01      0.00      0.00      0.10
>   0.00      0.00      0.00      0.03      0.01      0.04      0.01
>   0.03      0.00      0.01      0.00      0.00      0.15      0.02
>   0.01
3   3.27      0.00      0.00      0.00      0.00      0.00      0.01
>   0.00      0.00      0.00      0.02      0.01      0.03      0.04
>   0.10      0.01      0.00      0.00      0.00      0.12      0.05
>   0.04
4   3.54      0.00      0.00      0.14      0.01      0.00      0.00
>   0.00      0.00      0.00      0.00      0.00      0.00      0.00
>   0.01      0.19      0.00      0.00      0.00      0.00      0.13
>   0.18
5   3.69      0.00      0.00      0.04      0.00      0.00      0.04
>   0.00      0.00      0.00      0.00      0.00      0.01      0.30
>   0.00      0.26      0.00      0.00      0.00      0.02      0.07
>   0.04
6   3.73      0.00      0.00      0.06      0.00      0.00      0.10
>   0.00      0.00      0.00      0.03      0.05      0.07      0.08
>   0.00      0.05      0.02      0.01      0.00      0.00      0.00
>   0.06
7   3.80      0.00      0.00      0.00      0.00      0.00      0.05
>   0.00      0.00      0.00      0.01      0.00      0.00      0.24
>   0.03      0.18      0.00      0.00      0.00      0.00      0.00
>   0.29

```

8	3.89	0.00	0.00	0.32	0.00	0.00	0.01
>	0.00	0.00	0.00	0.02	0.00	0.00	0.00
>	0.00	0.00	0.00	0.00	0.00	0.01	0.43
>	0.00						
9	4.12	0.00	0.00	0.18	0.00	0.00	0.28
>	0.00	0.00	0.00	0.00	0.00	0.01	0.00
>	0.05	0.00	0.00	0.00	0.00	0.02	0.15
>	0.19						
10	4.31	0.00	0.00	0.02	0.00	0.00	0.12
>	0.00	0.00	0.00	0.00	0.00	0.00	0.11
>	0.03	0.00	0.05	0.03	0.00	0.00	0.02
>	0.02						
11	4.71	0.00	0.00	0.01	0.00	0.00	0.09
>	0.00	0.00	0.00	0.00	0.03	0.01	0.02
>	0.29	0.01	0.01	0.00	0.00	0.38	0.01
>	0.01						
12	4.89	0.00	0.00	0.02	0.02	0.00	0.03
>	0.00	0.00	0.00	0.06	0.06	0.00	0.00
>	0.08	0.01	0.00	0.00	0.00	0.07	0.05
>	0.00						
13	5.15	0.00	0.00	0.01	0.02	0.01	0.01
>	0.00	0.00	0.00	0.05	0.03	0.00	0.03
>	0.00	0.13	0.06	0.05	0.00	0.01	0.00
>	0.05						
14	5.56	0.00	0.00	0.00	0.00	0.04	0.04
>	0.00	0.00	0.00	0.42	0.12	0.03	0.00
>	0.01	0.00	0.03	0.02	0.00	0.00	0.00
>	0.01						
15	6.20	0.00	0.00	0.02	0.34	0.22	0.01
>	0.00	0.00	0.00	0.01	0.09	0.01	0.02
>	0.03	0.00	0.00	0.01	0.00	0.00	0.01
>	0.04						
16	6.69	0.00	0.00	0.03	0.09	0.36	0.00
>	0.00	0.00	0.01	0.03	0.01	0.00	0.00
>	0.19	0.00	0.00	0.00	0.00	0.06	0.01
>	0.01						
17	6.99	0.00	0.00	0.04	0.06	0.01	0.04
>	0.00	0.00	0.01	0.09	0.32	0.55	0.04
>	0.00	0.01	0.00	0.00	0.00	0.00	0.00
>	0.00						
18	7.62	0.00	0.00	0.01	0.01	0.09	0.01
>	0.01	0.00	0.01	0.02	0.10	0.16	0.07
>	0.03	0.01	0.02	0.00	0.00	0.03	0.00
>	0.00						
19	8.45	0.00	0.00	0.02	0.00	0.07	0.00
>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>	0.00	0.00	0.01	0.03	0.13	0.03	0.01
>	0.01						
20	9.60	0.00	0.00	0.00	0.01	0.09	0.00

```

>      0.00      0.00      0.01      0.01      0.02      0.01      0.00
>      0.01      0.00      0.11      0.16      0.45      0.03      0.00
>      0.01
21  9.88      0.00      0.00      0.00      0.01      0.00      0.00
>      0.00      0.00      0.00      0.02      0.02      0.00      0.00
>      0.00      0.01      0.36      0.39      0.00      0.00      0.00
>      0.01
22  11.00     0.00      0.00      0.00      0.00      0.02      0.00
>      0.01      0.00      0.00      0.00      0.00      0.01      0.00
>      0.00      0.02      0.23      0.16      0.33      0.00      0.02
>      0.00
23  11.40     0.00      0.00      0.02      0.01      0.04      0.02
>      0.01      0.00      0.21      0.00      0.00      0.01      0.00
>      0.00      0.07      0.00      0.00      0.00      0.02      0.00
>      0.01
24  12.82     0.00      0.00      0.00      0.00      0.00      0.00
>      0.02      0.00      0.12      0.01      0.00      0.00      0.01
>      0.02      0.01      0.01      0.03      0.00      0.01      0.01
>      0.00
25  14.26     0.00      0.01      0.00      0.00      0.03      0.00
>      0.12      0.00      0.16      0.02      0.01      0.00      0.01
>      0.00      0.03      0.03      0.04      0.00      0.00      0.01
>      0.00
26  23.02     0.01      0.08      0.04      0.02      0.01      0.01
>      0.81      0.01      0.02      0.01      0.02      0.00      0.00
>      0.00      0.00      0.02      0.01      0.01      0.01      0.00
>      0.00
27  34.40     0.02      0.89      0.01      0.37      0.00      0.00
>      0.00      0.02      0.02      0.00      0.06      0.03      0.01
>      0.04      0.00      0.01      0.01      0.03      0.00      0.00
>      0.00
28  140.65    0.97      0.01      0.01      0.00      0.00      0.03
>      0.02      0.98      0.43      0.14      0.02      0.00      0.00
>      0.04      0.01      0.01      0.03      0.04      0.01      0.00
>      0.00

```

```

condition
  index      ecprwl    polprwl      radwl    radtlwl    healthef    dafter
>  chsize
>
>
1   1.00      0.00      0.00      0.00      0.00      0.00      0.00
>   0.00
2   3.18      0.00      0.00      0.01      0.00      0.00      0.00
>   0.00
3   3.27      0.00      0.00      0.00      0.00      0.00      0.01
>   0.00
4   3.54      0.00      0.00      0.00      0.00      0.00      0.00
>   0.00

```

5	3.69	0.00	0.00	0.00	0.00	0.00	0.00
>	0.00						
6	3.73	0.00	0.00	0.00	0.00	0.00	0.00
>	0.00						
7	3.80	0.01	0.00	0.00	0.00	0.00	0.00
>	0.00						
8	3.89	0.00	0.00	0.00	0.01	0.00	0.01
>	0.00						
9	4.12	0.00	0.00	0.02	0.00	0.00	0.00
>	0.00						
10	4.31	0.04	0.00	0.02	0.00	0.00	0.13
>	0.00						
11	4.71	0.01	0.01	0.03	0.00	0.00	0.04
>	0.00						
12	4.89	0.03	0.00	0.07	0.00	0.00	0.27
>	0.00						
13	5.15	0.10	0.00	0.14	0.00	0.00	0.00
>	0.00						
14	5.56	0.02	0.00	0.01	0.00	0.00	0.14
>	0.00						
15	6.20	0.01	0.00	0.00	0.00	0.00	0.01
>	0.00						
16	6.69	0.04	0.04	0.00	0.09	0.00	0.03
>	0.00						
17	6.99	0.01	0.00	0.00	0.00	0.01	0.11
>	0.01						
18	7.62	0.08	0.01	0.26	0.07	0.03	0.15
>	0.01						
19	8.45	0.09	0.03	0.07	0.54	0.00	0.00
>	0.02						
20	9.60	0.19	0.02	0.10	0.02	0.03	0.02
>	0.00						
21	9.88	0.26	0.21	0.22	0.02	0.02	0.00
>	0.00						
22	11.00	0.02	0.39	0.00	0.08	0.05	0.02
>	0.01						
23	11.40	0.07	0.05	0.01	0.06	0.40	0.00
>	0.05						
24	12.82	0.00	0.05	0.00	0.04	0.40	0.00
>	0.39						
25	14.26	0.01	0.17	0.01	0.02	0.01	0.00
>	0.47						
26	23.02	0.00	0.02	0.02	0.00	0.03	0.00
>	0.03						
27	34.40	0.01	0.00	0.00	0.00	0.00	0.04
>	0.00						
28	140.65	0.00	0.00	0.00	0.02	0.03	0.01
>	0.00						

```
17 . estat ovtest    // should try squares and cubes of vars
```

Ramsey RESET test using powers of the fitted values of radhlw3

Ho: model has no omitted variables

F(3, 227) = **4.18**
 Prob > F = **0.0066**

```
18 . eststo radhlw3wlp3
```

```
19 .
```

```
20 .
```

```
21 .
```

```
22 .
```

```
23 . subtitle "Trimmed wave one radhlw3 dep var model"
```

```

                                Date and time:   9 Apr 2012   16:13:21
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide6apr2012femmes.
> dta
                                Stata version:   12.1
                                Operating system: MacOSX   10.6.8   on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory

```

Trimmed wave one radhlw3 dep var model

```
24 . // trimmed significance
```

```
25 . sw, pr(.1): regress radhlw3 age occ4w1 childw1 shhlw1 smokw1 CSsocspt lBSItot
> tal BSIphanx WHPsociso HP2hmcare HP2probsoc ///
> beerw1 liqw1 mhoutw1 goferw1 fdferw1 injothr icdx1nr10 icdx1nr14 icdx3nr2 /
> //
```

```
> ecprw1 polprw1 radw1 radtlw1 healthef dafter chsize if gender==2, beta
```

begin with full model

```

p = 0.8718 >= 0.1000 removing dafter
p = 0.7682 >= 0.1000 removing age
p = 0.7561 >= 0.1000 removing ecprw1
p = 0.4115 >= 0.1000 removing lBSItotal
p = 0.3582 >= 0.1000 removing childw1

```

Source	SS	df	MS
Model	187815.054	22	8537.04789
Residual	100901.85	235	429.369573
Total	288716.903	257	1123.41207

```

Number of obs =   258
F( 22,  235) =   19.88
Prob > F       =   0.0000
R-squared      =   0.6505
Adj R-squared =   0.6178
Root MSE      =   20.721

```

radhlw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
chsize	.1892232	.0516966	3.66	0.000	.0873752	.2910712
occ4w1	19.0727	5.944048	3.21	0.002	7.362271	30.78313
radw1	-.1946038	.0354677	-5.49	0.000	-.264479	-.1247286
shhlw1	.0920797	.0416096	2.21	0.028	.0101043	.1740552
smokw1	.2364145	.083367	2.84	0.005	.0721723	.4006567
CSsocspt	.8299634	.2388862	3.47	0.001	.3593313	1.300596
radtlw1	.1569877	.0392624	4.00	0.000	.0796364	.2343389
BSIphanx	.9226345	.4528794	2.04	0.043	.0304121	1.814857
WHPsociso	.1979912	.0761058	2.60	0.010	.0480544	.3479281
HP2hmcare	-14.66643	3.262463	-4.50	0.000	-21.09384	-8.239019
HP2probsoc	17.78119	4.278874	4.16	0.000	9.351334	26.21104
beerw1	.553948	.2128558	2.60	0.010	.1345987	.9732973
liqw1	3.471195	1.198849	2.90	0.004	1.109331	5.833058
mhoutw1	5.073762	1.736221	2.92	0.004	1.653215	8.494308
goferw1	-.1723237	.0552579	-3.12	0.002	-.2811879	-.0634595
fdferw1	.1278958	.0509071	2.51	0.013	.0276032	.2281885
injothr	19.4387	3.563964	5.45	0.000	12.41729	26.4601
icdx1nr10	-73.71612	23.45491	-3.14	0.002	-119.9249	-27.50736
icdx1nr14	-20.92319	8.19523	-2.55	0.011	-37.0687	-4.777687
icdx3nr2	-29.25859	8.803746	-3.32	0.001	-46.60294	-11.91424
healthef	.251638	.0482299	5.22	0.000	.1566198	.3466561
polprw1	.2221861	.0416183	5.34	0.000	.1401935	.3041787
_cons	-41.76193	8.601907	-4.85	0.000	-58.70863	-24.81522

```

26 .
27 . hireg radhlw3 age (occ4w1 childw1) (shhlw1) (lBSItotal BSIphanx) (WHPsociso
> HP2hmcare HP2probsoc) (CSsocspt) (beerw1 smokw1 liqw1) ///
> (mhoutw1) (goferw1 fdferw1) (injothr) (ecprw1 polprw1 dafter) (radw1 radtl
> w1 chsize) ///
> (icdx1nr10 icdx1nr14 icdx3nr2), r(beta robust)

```

Model 1:

Variables in Model:

Adding : occ4w1 childw1

Linear regression

```

Number of obs =      361
F(   3,   357) =    11.93
Prob > F       =    0.0000
R-squared      =    0.0877
Root MSE      =    33.304

```

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.5966235	.1961419	3.04	0.003	.2030672
occ4w1	2.60683	8.762963	0.30	0.766	.0154728
childw1	4.211692	2.592578	1.62	0.105	.1148907
_cons	26.79202	8.690494	3.08	0.002	.

Model 2:

Variables in Model: **occ4w1 childw1**

Adding : **shhlw1**

Linear regression

Number of obs = 361

F(4, 356) = 10.15

Prob > F = 0.0000

R-squared = 0.1054

Root MSE = 33.026

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.5649913	.1984884	2.85	0.005	.1923008
occ4w1	1.587221	8.62195	0.18	0.854	.0094209
childw1	3.74289	2.624442	1.43	0.155	.1021023
shhlw1	.1374501	.0490748	2.80	0.005	.1348962
_cons	24.00734	8.868933	2.71	0.007	.

R-Square Diff. Model 2 - Model 1 = 0.018 F(1,356) = 7.028 p = 0.008

Model 3:

Variables in Model: **occ4w1 childw1 shhlw1**

Adding : **lBSItotal BSIPhanx**

Linear regression

Number of obs = 361

F(6, 354) = 12.29

Prob > F = 0.0000

R-squared = 0.1525

Root MSE = 32.235

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.3738096	.2005783	1.86	0.063	.1272301
occ4w1	-.221795	8.340598	-0.03	0.979	-.0013165
childw1	3.562763	2.485215	1.43	0.153	.0971886
shhlw1	.0973691	.0486972	2.00	0.046	.0955599
lBSItotal	29.82623	8.288684	3.60	0.000	.2604759
BSIphanx	-.4205497	.7799268	-0.54	0.590	-.0394067
_cons	-94.86416	31.82176	-2.98	0.003	.

R-Square Diff. Model 3 - Model 2 = **0.047** $F(2,354) = 9.842$ $p = 0.000$

Model 4:

Variables in Model: **occ4w1 childw1 shhlw1 lBSItotal BSIphanx**
Adding : **WHPsociso HP2hmcare HP2probsoc**

Linear regression

Number of obs = **361**
 $F(9, 351) = 13.75$
Prob > F = **0.0000**
R-squared = **0.2065**
Root MSE = **31.324**

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.2581905	.2057795	1.25	0.210	.0878779
occ4w1	1.258696	9.51048	0.13	0.895	.007471
childw1	3.937119	2.38655	1.65	0.100	.1074007
shhlw1	.0967132	.0464701	2.08	0.038	.0949163
lBSItotal	23.97122	9.46523	2.53	0.012	.2093434
BSIphanx	-.4131031	.7666745	-0.54	0.590	-.0387089
WHPsociso	.1304806	.1127329	1.16	0.248	.0706366
HP2hmcare	-14.52861	4.034848	-3.60	0.000	-.1993525
HP2probsoc	20.63578	5.128025	4.02	0.000	.2402504
_cons	-63.85483	37.41603	-1.71	0.089	.

R-Square Diff. Model 4 - Model 3 = **0.054** $F(3,351) = 7.968$ $p = 0.000$

Model 5:

Variables in Model: **occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H**
> **P2hmcare HP2probsoc**
Adding : **CSsocspt**

Linear regression

Number of obs = 361
 F(10, 350) = 14.42
 Prob > F = 0.0000
 R-squared = 0.2249
 Root MSE = 31.004

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.1570634	.2035015	0.77	0.441	.0534582
occ4w1	4.19134	9.216496	0.45	0.650	.0248776
childw1	4.199402	2.32374	1.81	0.072	.1145555
shhlw1	.1110536	.0461586	2.41	0.017	.1089902
lBSItotal	24.60488	9.325774	2.64	0.009	.2148773
BSIphanx	-.6163401	.76849	-0.80	0.423	-.0577528
WHPsociso	.1541022	.1065166	1.45	0.149	.0834243
HP2hmcare	-13.93234	3.947675	-3.53	0.000	-.1911708
HP2probsoc	20.83842	5.003753	4.16	0.000	.2426097
CSsocspt	.8596894	.2921098	2.94	0.003	.1403424
_cons	-83.07391	37.64286	-2.21	0.028	.

R-Square Diff. Model 5 - Model 4 = 0.018 F(1,350) = 8.272 p = 0.004

Model 6:

Variables in Model: occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H
 > P2hmcare HP2probsoc CSsocspt
 Adding : beerw1 smokw1 liqw1

Linear regression

Number of obs = 360
 F(13, 346) = 12.94
 Prob > F = 0.0000
 R-squared = 0.2302
 Root MSE = 31.041

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.1814792	.2046506	0.89	0.376	.0618248
occ4w1	3.613901	9.288655	0.39	0.697	.0214724
childw1	3.825744	2.33575	1.64	0.102	.1043383
shhlw1	.1106408	.0463345	2.39	0.017	.1087016
lBSItotal	26.02777	9.498657	2.74	0.006	.2275509
BSIphanx	-.7342271	.7740317	-0.95	0.343	-.0688084
WHPsociso	.144126	.1084081	1.33	0.185	.0780799
HP2hmcare	-14.31411	4.00983	-3.57	0.000	-.1964805
HP2probsoc	20.78086	5.18216	4.01	0.000	.2421188
CSsocspt	.8180544	.2937877	2.78	0.006	.1336329

beerw1	.3697427	.1055873	3.50	0.001	.0576477
smokw1	-.1090174	.1159188	-0.94	0.348	-.0445648
liqw1	.0654236	1.37206	0.05	0.962	.0021142
_cons	-87.97805	38.60268	-2.28	0.023	.

R-Square Diff. Model 6 - Model 5 = 0.005 F(3,346) = 0.726 p = 0.537

Model 7:

Variables in Model: occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H
> P2hmcare HP2probsoc CSsocspt beerw1 smokw1 liqw1
Adding : mhoutw1

Linear regression

Number of obs = 270
F(14, 255) = 15.84
Prob > F = 0.0000
R-squared = 0.2702
Root MSE = 29.347

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.0349572	.2192449	0.16	0.873	.0117911
occ4w1	8.28151	9.054396	0.91	0.361	.0550025
childw1	3.722257	2.704288	1.38	0.170	.1045574
shhlw1	.1879735	.0515673	3.65	0.000	.1918463
lBSItotal	13.29974	11.24343	1.18	0.238	.1222542
BSIphanx	-.2213809	.7886165	-0.28	0.779	-.0219793
WHPsociso	.1975521	.1263198	1.56	0.119	.1175898
HP2hmcare	-12.76267	4.389687	-2.91	0.004	-.1825625
HP2probsoc	19.53476	5.522088	3.54	0.000	.2324154
CSsocspt	.9141309	.3084478	2.96	0.003	.1579655
beerw1	.5236679	.1632281	3.21	0.002	.0973636
smokw1	-.0412475	.1161227	-0.36	0.723	-.0200118
liqw1	2.544139	1.533687	1.66	0.098	.0912323
mhoutw1	4.853951	.925342	5.25	0.000	.1146433
_cons	-39.50734	44.97361	-0.88	0.381	.

R-Square Diff. Model 7 - Model 6 = 0.040 F(1,255) = -21.350 p = 1.000

Model 8:

Variables in Model: occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H
> P2hmcare HP2probsoc CSsocspt beerw1 smokw1 liqw1 mhoutw1
Adding : goferw1 fdferw1

Linear regression

Number of obs = 270
 F(16, 253) = 12.39
 Prob > F = 0.0000
 R-squared = 0.2954
 Root MSE = 28.948

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.0059199	.224672	0.03	0.979	.0019968
occ4w1	6.869726	9.014782	0.76	0.447	.045626
childw1	3.349246	2.778058	1.21	0.229	.0940796
shhlw1	.1571456	.0520007	3.02	0.003	.1603832
lBSItotal	8.941604	11.39609	0.78	0.433	.0821932
BSIphanx	.0341418	.7719251	0.04	0.965	.0033897
WHPsociso	.1975943	.1325089	1.49	0.137	.1176149
HP2hmcare	-12.17725	4.321663	-2.82	0.005	-.1741883
HP2probsoc	18.02578	5.502866	3.28	0.001	.2144623
CSsocspt	.9652513	.3191423	3.02	0.003	.1667993
beerw1	.4266367	.162179	2.63	0.009	.079323
smokw1	-.0140312	.1098149	-0.13	0.898	-.0068074
liqw1	2.654073	1.507449	1.76	0.080	.0951745
mhoutw1	4.131314	1.09196	3.78	0.000	.0975756
goferw1	-.0120909	.0671612	-0.18	0.857	-.0130192
fdferw1	.157784	.0651435	2.42	0.016	.1814674
_cons	-25.77634	46.00154	-0.56	0.576	.

R-Square Diff. Model 8 - Model 7 = 0.025 F(2,253) = 4.538 p = 0.012

Model 9:

Variables in Model: occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H
 > P2hmcare HP2probsoc CSsocspt beerw1 smokw1 liqw1 mhoutw1 goferw1 fdfer
 > w1
 Adding : injothr

Linear regression

Number of obs = 270
 F(17, 252) = 15.86
 Prob > F = 0.0000
 R-squared = 0.3645
 Root MSE = 27.549

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.1331875	.2301302	0.58	0.563	.0449244
occ4w1	7.153578	8.506465	0.84	0.401	.0475112
childw1	1.031666	2.634046	0.39	0.696	.0289793
shhlw1	.1437243	.049152	2.92	0.004	.1466854
lBSItotal	-3.636898	10.82488	-0.34	0.737	-.0334312
BSIphanx	.7660728	.7845	0.98	0.330	.0760579
WHPsociso	.2632648	.120745	2.18	0.030	.1567043
HP2hmcare	-14.874	4.203853	-3.54	0.000	-.2127637
HP2probsoc	18.08414	5.504167	3.29	0.001	.2151566
CSsocspt	.7437876	.3171394	2.35	0.020	.1285295
beerw1	.4354956	.1518855	2.87	0.004	.0809701
smokw1	.0213599	.1053001	0.20	0.839	.0103631
liqw1	2.284145	1.499462	1.52	0.129	.081909
mhoutw1	3.148609	1.067768	2.95	0.003	.0743656
goferw1	-.0491256	.0678548	-0.72	0.470	-.0528973
fdferw1	.1590699	.0633687	2.51	0.013	.1829463
injothr	24.23951	4.397973	5.51	0.000	.2883902
_cons	8.296341	43.83017	0.19	0.850	.

R-Square Diff. Model 9 - Model 8 = 0.069 F(1,252) = 27.364 p = 0.000

Model 10:

Variables in Model: **occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H**
> P2hmcare HP2probsoc CSsocspt beerw1 smokw1 liqw1 mhoutw1 goferw1 fdfer
> w1 injothr
Adding : **ecprw1 polprw1 dafter**

Linear regression

Number of obs = 263
F(20, 242) = 17.77
Prob > F = 0.0000
R-squared = 0.4567
Root MSE = 25.684

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.0283569	.2325467	0.12	0.903	.0095269
occ4w1	5.741413	6.916478	0.83	0.407	.0385606
childw1	.8123224	2.419087	0.34	0.737	.0228912
shhlw1	.0797604	.0502907	1.59	0.114	.0813996
lBSItotal	-2.293707	10.33263	-0.22	0.825	-.0210644
BSIphanx	1.267597	.8503053	1.49	0.137	.1263147
WHPsociso	.2195534	.1047167	2.10	0.037	.1316894
HP2hmcare	-13.88578	4.186356	-3.32	0.001	-.1986083

HP2probsoc	20.13898	5.270441	3.82	0.000	.2399615
CSsocspt	.7696546	.3205778	2.40	0.017	.1324688
beerw1	.5835694	.1269926	4.60	0.000	.1097794
smokw1	.1053965	.1138926	0.93	0.356	.0509374
liqw1	2.686366	1.690318	1.59	0.113	.0972795
mhoutw1	4.198541	1.383142	3.04	0.003	.1003336
goferw1	-.0592467	.0690162	-0.86	0.391	-.0636826
fdferw1	.1169792	.0649697	1.80	0.073	.1337935
injothr	18.48735	4.304148	4.30	0.000	.2186699
ecprw1	.1728066	.0584576	2.96	0.003	.1765295
polprw1	.1921524	.0591461	3.25	0.001	.2018141
dafter	.4937108	.3164776	1.56	0.120	.067772
_cons	-9.226637	41.82176	-0.22	0.826	.

R-Square Diff. Model 10 - Model 9 = 0.092 F(3,242) = 12.394 p = 0.000

Model 11:

Variables in Model: occ4w1 childw1 shhlw1 lBSItotal BSIphanx WHPsociso H
> P2hmcare HP2probsoc CSsocspt beerw1 smokw1 liqw1 mhoutw1 goferw1 fdfer
> w1 injothr ecprw1 polprw1 dafter
Adding : radw1 radtlw1 chsize

Linear regression

Number of obs = 263
F(23, 239) = 28.22
Prob > F = 0.0000
R-squared = 0.5705
Root MSE = 22.978

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	-.0150805	.2047067	-0.07	0.941	-.0050665
occ4w1	12.4042	6.852248	1.81	0.072	.0833093
childw1	.4551372	2.317327	0.20	0.844	.0128257
shhlw1	.0688126	.0457457	1.50	0.134	.0702268
lBSItotal	1.515026	9.751277	0.16	0.877	.0139133
BSIphanx	1.226294	.7174234	1.71	0.089	.1221989
WHPsociso	.2229299	.1039442	2.14	0.033	.1337146
HP2hmcare	-13.30587	3.657783	-3.64	0.000	-.1903138
HP2probsoc	16.63808	4.637414	3.59	0.000	.1982474
CSsocspt	.7464355	.2619334	2.85	0.005	.1284724
beerw1	.5787115	.1014139	5.71	0.000	.1088656
smokw1	.1375257	.1111279	1.24	0.217	.0664652
liqw1	3.07081	1.372628	2.24	0.026	.1112011
mhoutw1	3.706936	1.086581	3.41	0.001	.0885856
goferw1	-.1253447	.065014	-1.93	0.055	-.1347294
fdferw1	.1351256	.0624566	2.16	0.031	.1545482
injothr	20.12565	4.03572	4.99	0.000	.2380478

ecprwl	.0338298	.0603588	0.56	0.576	.0345586
polprwl	.1910758	.0542169	3.52	0.001	.2006834
dafter	.12459	.3448177	0.36	0.718	.0171025
radwl	-.2052546	.0453623	-4.52	0.000	-.2397961
radtlwl	.1593046	.0467594	3.41	0.001	.1780675
chsize	.2556813	.0586347	4.36	0.000	.2148265
_cons	-36.78667	40.2645	-0.91	0.362	.

R-Square Diff. Model 11 - Model 10 = 0.114 $F(3,239) = 21.117$ $p = 0.000$

Model 12:

Variables in Model: **occ4wl childwl shhlwl lBSItotal BSIPhanx WHPsociso H**
> P2hmcare HP2probsoc CSsocspt beerwl smokwl liqwl mhoutwl goferwl fdfer
> wl injothr ecprwl polprwl dafter radwl radtlwl chsize
Adding : **icdx1nr10 icdx1nr14 icdx3nr2**

Linear regression

Number of obs = 258
 $F(25, 231) =$.
Prob > F = .
R-squared = 0.6127
Root MSE = 22.003

radhlw3	Coef.	Robust Std. Err.	t	P> t	Beta
age	.044738	.1939664	0.23	0.818	.0149154
occ4wl	13.26324	6.258368	2.12	0.035	.0898179
childwl	1.008537	2.033129	0.50	0.620	.0284272
shhlwl	.080512	.0433103	1.86	0.064	.0818111
lBSItotal	.7977776	9.274301	0.09	0.932	.0072888
BSIPhanx	1.00875	.6884812	1.47	0.144	.1008956
WHPsociso	.2172033	.0991605	2.19	0.029	.1310308
HP2hmcare	-15.76471	3.649339	-4.32	0.000	-.2257294
HP2probsoc	17.64787	4.546305	3.88	0.000	.2116321
CSsocspt	.8069544	.2559539	3.15	0.002	.1386624
beerwl	.5891779	.0825965	7.13	0.000	.1117893
smokwl	.2056178	.10948	1.88	0.062	.100184
liqwl	3.976168	.950767	4.18	0.000	.1450563
mhoutwl	4.822585	.8677531	5.56	0.000	.1162512
goferwl	-.1596459	.0639437	-2.50	0.013	-.1722465
fdferwl	.1438751	.0616018	2.34	0.020	.1644691
injothr	19.46341	4.186795	4.65	0.000	.2299798
ecprwl	.0385045	.0558498	0.69	0.491	.0393038
polprwl	.2073944	.0539031	3.85	0.000	.218321
dafter	.2069067	.3478871	0.59	0.553	.0285959
radwl	-.1959343	.0419569	-4.67	0.000	-.2275233
radtlwl	.1566478	.044388	3.53	0.001	.1748807
chsize	.2446823	.0554637	4.41	0.000	.2057866

icdx1nr10	-74.73357	10.73131	-6.96	0.000	-.138815
icdx1nr14	-19.71256	5.367606	-3.67	0.000	-.0957377
icdx3nr2	-30.12486	8.223128	-3.66	0.000	-.1357235
_cons	-36.0819	38.11545	-0.95	0.345	.

R-Square Diff. Model 12 - Model 11 = **0.042** F(2,231) = **9.535** p = **0.000**

Model	R2	F(df)	p	R2 change	F(df) change	p
1:	0.088	11.926(3,357)	0.000			
2:	0.105	10.152(4,356)	0.000	0.018	7.028(1,356)	0.00
> 8						
3:	0.152	12.294(6,354)	0.000	0.047	9.842(2,354)	0.00
> 0						
4:	0.207	13.755(9,351)	0.000	0.054	7.968(3,351)	0.00
> 0						
5:	0.225	14.416(10,350)	0.000	0.018	8.272(1,350)	0.00
> 4						
6:	0.230	12.941(13,346)	0.000	0.005	0.726(3,346)	0.53
> 7						
7:	0.270	15.844(14,255)	0.000	0.040	-21.350(1,255)	1.00
> 0						
8:	0.295	12.390(16,253)	0.000	0.025	4.538(2,253)	0.01
> 2						
9:	0.364	15.856(17,252)	0.000	0.069	27.364(1,252)	0.00
> 0						
10:	0.457	17.772(20,242)	0.000	0.092	12.394(3,242)	0.00
> 0						
11:	0.571	28.219(23,239)	0.000	0.114	21.117(3,239)	0.00
> 0						
12:	0.613	.(25,231)	.	0.042	9.535(2,231)	0.00
> 0						

28 .

29 .

30 .

31 . /*

> EQ(3) Modelling radhlw3 by OLS-CS female wave 1 radhlw3 autoMet pass
> 3

> The dataset is: /Users/robertyaffee/Documents/data/research/chwk/phas
> e3/data/ox/chwide6apr2012femmeold.dta

> The estimation sample is: 4 - 361

> Dropped 103 observation(s) with missing values from the sample

>

	Coefficient	Std.Error	t-value	t-prob	Part.R^2
> childw1	1.61069	1.616	0.997	0.3200	0.0043
> occ4w1	18.8000	6.139	3.06	0.0025	0.0393
> shhlw1	0.0943661	0.04379	2.15	0.0322	0.0199
> smokw1	0.250576	0.08508	2.95	0.0036	0.0365

```

> beerw1          0.551498      0.2167      2.54  0.0116  0.0275
> liqw1           3.68961      1.221      3.02  0.0028  0.0383
> mhoutw1         5.11233      1.758      2.91  0.0040  0.0356
> goferw1        -0.192986     0.05652     -3.41  0.0008  0.0484
> fdferw1         0.143267     0.05162      2.78  0.0060  0.0325
> injothr         19.6636      3.708      5.30  0.0000  0.1094
> ecprw1          0.0106181     0.05020     0.212  0.8327  0.0002
> polprw1         0.212440     0.04512      4.71  0.0000  0.0883
> radw1          -0.180495     0.03920     -4.61  0.0000  0.0848
> radtlw1         0.144975     0.03958      3.66  0.0003  0.0553
> dafter          0.0607804     0.2999      0.203  0.8396  0.0002
> healthgef       0.255667     0.04985      5.13  0.0000  0.1030
> chsize          0.184163     0.05267      3.50  0.0006  0.0507
> CSsocspt        0.804433     0.2355      3.42  0.0008  0.0485
> WHPsociso       0.230658     0.07811      2.95  0.0035  0.0367
> HP2hmcare      -14.8414      3.349     -4.43  0.0000  0.0790
> HP2probsoc      18.6429      4.415      4.22  0.0000  0.0722
> lBSItotal      -10.5064      2.183     -4.81  0.0000  0.0919
> BSIphanx        1.40474      0.5022      2.80  0.0056  0.0330
> icdx1nr10      -78.8205      23.77     -3.32  0.0011  0.0458
> icdx1nr14      -20.8964      8.294     -2.52  0.0124  0.0270
> icdx3nr2       -29.8046      9.009     -3.31  0.0011  0.0456
>
> sigma           20.8179  RSS           99245.5272
> log-likelihood   -1122.25
> no. of observations      255  no. of parameters      26
> mean(radhlw3)      58.4118  se(radhlw3)      33.4719
> When the log-likelihood constant is NOT included:
> AIC                6.16801  SC                6.52908
> HQ                 6.31325  FPE                477.575
> When the log-likelihood constant is included:
> AIC                9.00589  SC                9.36696
> HQ                 9.15112  FPE                8156.73
>
> Normality test:  Chi^2(2)  =   1.4047  [0.4954]
> Hetero test:    F(44,209) =   1.3925  [0.0656]
> RESET23 test:   F(2,227)  =   4.5151  [0.0119]*
>
> */

```

```

32 .
33 .
34 .
35 . subtitle "Wave 2 females radhlw3 "

```

```

                                Date and time:   9 Apr 2012   16:13:21
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide6apr2012femmes.
> dta
                                Stata version:   12.1
                                Operating system: MacOSX   10.6.8   on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory

```

Wave 2 females radhlw3

```

36 . des radhlw3 emplyw12 emplyw23 dvcew1 suchrw1 defnw1 sepaw2 polprw2 defnw2 trgo
> vw2 dafter ///
> radtlw2 kzchorn HP2hmcare HP2probsoc MiPTSD icdx1nr10 icdx1nr14 icdx3nr7 i
> cdx4nr3

```

variable name	storage type	display format	value label	variable label
radhlw3	byte	%8.0g		Observed
emplw12	byte	%8.0g		emplw1==1. full time
emplw23	byte	%8.0g		emplw2==2. part time
dvcew1	byte	%8.0g		Total number of divorces experienced in time period 1976-1986
suchrw1	byte	%8.0g		Level of support (in percent) from Chernobyl survivor benefits in 1986
defnw1	byte	%8.0g		* consider hazardous (in percent) - deficiencies in essential nutrition in 1986
sepaw2	byte	%8.0g		Total number of separations experienced in time period 1987-1996
polprw2	byte	%8.0g		consider hazardous (in percent) - political problems in 1996
defnw2	byte	%8.0g		* consider hazardous (in percent) - deficiencies in essential nutrition in 1996
trgovw2	byte	%8.0g		level of trust in government reports about chornobyl in time period 1987-1996

dafter	int	%8.0g		* how many days lapsed after Chornobyl accident before you heard about the acciden
radtlw2	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1996
kzchorn	byte	%8.0g		* in k/z most cases of cancer in humans are known to be caused by radiation from
HP2hmcare	byte	%9.0g	hp2fmt	Hlth profile Pt2: Home cleaning, cooking and repairs
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
MiPTSD	byte	%9.0g		Mississippi post-traumatic stress disorder scale
icdx1nr10	byte	%8.0g		icdx1nr==486 pneumonia
icdx1nr14	byte	%8.0g		icdx1nr==535 gastritis & duodenitis
icdx3nr7	byte	%8.0g		icdx3nr==434.91 crbrl art ocl nos w infarc
icdx4nr3	byte	%8.0g		icdx4nr==290.12 presenile delusion

```

37 . regress radhlw3 emplw12 emplw23 dvcew1 suchrw1 defnw1 sepaw2 polprw2 defnw2
>   trgovw2 dafter ///
>   radtlw2 kzchorn HP2hmcare HP2probsoc MiPTSD icdx1nr10 icdx1nr14 icdx3nr7 i
>   cdx4nr3 if gender==2, beta

```

Source	SS	df	MS	Number of obs =	258
Model	178963.749	19	9419.14468	F(19, 238) =	21.15
Residual	105990.363	238	445.337662	Prob > F =	0.0000
				R-squared =	0.6280
				Adj R-squared =	0.5984
Total	284954.112	257	1108.77087	Root MSE =	21.103

radhlw3	Coef.	Std. Err.	t	P> t	Beta
emplw12	12.2082	3.119261	3.91	0.000	.1680889
emplw23	12.41061	4.323712	2.87	0.004	.1197082
dvcew1	14.97883	9.805677	1.53	0.128	.0621335
suchrw1	.4557119	.1523324	2.99	0.003	.1230798
defnw1	.1511518	.0463286	3.26	0.001	.1531126
sepaw2	16.61479	8.988432	1.85	0.066	.0753483
polprw2	.1111823	.0437212	2.54	0.012	.1250347
defnw2	.2134155	.0486768	4.38	0.000	.2276271
trgovw2	-.0932683	.0451284	-2.07	0.040	-.0893521
dafter	.3854584	.2991699	1.29	0.199	.0536966
radtlw2	.1785785	.0422577	4.23	0.000	.1886835

kzchorn	.2831592	.0556586	5.09	0.000	.2331946
HP2hmcare	-11.87843	3.277128	-3.62	0.000	-.1707814
HP2probsoc	14.04801	4.14531	3.39	0.001	.1695714
MiPTSD	.4694126	.1281353	3.66	0.000	.1703854
icdx1nr10	-31.50847	21.96253	-1.43	0.153	-.058911
icdx1nr14	-19.68091	8.366774	-2.35	0.019	-.096213
icdx3nr7	32.62334	21.72788	1.50	0.135	.0609955
icdx4nr3	-76.37301	21.659	-3.53	0.001	-.1427937
_cons	-33.9352	7.37406	-4.60	0.000	.

38 . cap predict frstd3w2p3, rstandard

39 . swilk frstd3w2p3 // nonnormal

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
frstd3w2p3	258	0.98760	2.313	1.954	0.02536

40 . estat hettest // good

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance

Variables: fitted values of radhlw3

chi2(1) = 2.48

Prob > chi2 = 0.1156

41 . estat vif // good

Variable	VIF	1/VIF
defnw2	1.72	0.579795
HP2probsoc	1.60	0.624201
polprw2	1.55	0.646458
HP2hmcare	1.42	0.703987
defnw1	1.41	0.709611
MiPTSD	1.38	0.722473
kzchorn	1.34	0.743832
radtlw2	1.28	0.783959
trgovw2	1.20	0.836129
emplw12	1.18	0.847298
emplw23	1.11	0.898544
dafter	1.11	0.899787
suchrw1	1.08	0.923287
icdx1nr10	1.08	0.926854
icdx1nr14	1.07	0.934160

sepaw2	1.06	0.940566
dvcew1	1.06	0.944634
icdx3nr7	1.06	0.946981
icdx4nr3	1.05	0.953014
Mean VIF	1.25	

42 . estat ovtest // good

Ramsey RESET test using powers of the fitted values of radhlw3

Ho: model has no omitted variables

F(3, 235) = 1.88

Prob > F = 0.1339

43 . extremes frstd3w2p3 // negative outlier

obs:	frstd3w~3
81.	-2.769204
56.	-2.462481
113.	-2.194155
338.	-2.193914
160.	-2.177446

80.	2.330829
112.	2.3735
310.	2.52109
61.	3.292391
302.	3.315169

44 . eststo fradhlw3w2pass3

45 .

```

46 . di as input "Wave 1 and 2 regression of radhlw3 with outlier trimming"
    Wave 1 and 2 regression of radhlw3 with outlier trimming

47 . rreg radhlw3 emplw12 emplw23 dvcew1 suchrw1 defnw1 sepaw2 polprw2 defnw2 trg
    > ovw2 dafter ///
    > radtlw2 kzchorn HP2hmcare HP2probsoc MiPTSD icdx1nr10 icdx1nr14 icdx3nr7 i
    > cdx4nr3 if gender==2

```

```

    Huber iteration 1: maximum difference in weights = .65999377
    Huber iteration 2: maximum difference in weights = .09250642
    Huber iteration 3: maximum difference in weights = .03634351
    Biweight iteration 4: maximum difference in weights = .28210906
    Biweight iteration 5: maximum difference in weights = .03068409
    Biweight iteration 6: maximum difference in weights = .01011336
    Biweight iteration 7: maximum difference in weights = .0037827

```

Robust regression

```

Number of obs =      258
F( 19, 238) =    24.02
Prob > F      =    0.0000

```

radhlw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
emplw12	10.8854	3.070184	3.55	0.000	4.837194	16.93361
emplw23	13.65293	4.255685	3.21	0.002	5.269309	22.03655
dvcew1	17.18542	9.651399	1.78	0.076	-1.827655	36.1985
suchrw1	.4089332	.1499357	2.73	0.007	.1135627	.7043037
defnw1	.1512429	.0455997	3.32	0.001	.0614123	.2410735
sepaw2	19.96341	8.847013	2.26	0.025	2.534956	37.39186
polprw2	.1272113	.0430333	2.96	0.003	.0424365	.2119862
defnw2	.2146982	.0479109	4.48	0.000	.1203145	.3090819
trgovw2	-.0923655	.0444184	-2.08	0.039	-.1798689	-.0048621
dafter	.3991625	.2944629	1.36	0.177	-.1809239	.979249
radtlw2	.1869823	.0415928	4.50	0.000	.1050451	.2689194
kzchorn	.3006289	.0547829	5.49	0.000	.1927077	.4085501
HP2hmcare	-12.49462	3.225567	-3.87	0.000	-18.84893	-6.140315
HP2probsoc	13.98572	4.08009	3.43	0.001	5.948015	22.02342
MiPTSD	.5740215	.1261193	4.55	0.000	.3255688	.8224741
icdx1nr10	-28.50882	21.61698	-1.32	0.188	-71.09388	14.07624
icdx1nr14	-17.90552	8.235135	-2.17	0.031	-34.12859	-1.682457
icdx3nr7	34.75659	21.38602	1.63	0.105	-7.373487	76.88666
icdx4nr3	-76.51101	21.31823	-3.59	0.000	-118.5075	-34.5145
_cons	-41.62188	7.25804	-5.73	0.000	-55.92008	-27.32367

```

48 .
49 .
50 . di as input "Trimmed radhlw3 for waves one and two"
    Trimmed radhlw3 for waves one and two

51 . sw, pr(.1) : regress radhlw3 emplw12 emplw23 dvcew1 suchrw1 defnw1 sepaw2 po
    > lprw2 defnw2 trgovw2 dafter ///
    > radtlw2 kzchorn HP2hmcare HP2probsoc MiPTSD icdx1nr10 icdx1nr14 icdx3nr7 i
    > cdx4nr3 if gender==2, beta
                                begin with full model
p = 0.1988 >= 0.1000 removing dafter
p = 0.1552 >= 0.1000 removing dvcew1
p = 0.1436 >= 0.1000 removing icdx3nr7
p = 0.1299 >= 0.1000 removing icdx1nr10

```

Source	SS	df	MS	Number of obs =	258
Model	175309.854	15	11687.3236	F(15, 242) =	25.80
Residual	109644.259	242	453.07545	Prob > F =	0.0000
				R-squared =	0.6152
				Adj R-squared =	0.5914
Total	284954.112	257	1108.77087	Root MSE =	21.286

radhlw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
emplw12	11.91112	3.087081	3.86	0.000	5.830138	17.9921
emplw23	12.07259	4.355041	2.77	0.006	3.493965	20.65122
icdx1nr14	-18.57469	8.399175	-2.21	0.028	-35.11951	-2.029868
suchrw1	.4708888	.1532766	3.07	0.002	.1689622	.7728154
defnw1	.145348	.0460356	3.16	0.002	.0546664	.2360295
sepaw2	16.38169	9.057868	1.81	0.072	-1.460637	34.22401
polprw2	.1006171	.0435999	2.31	0.022	.0147334	.1865008
defnw2	.2168454	.0486189	4.46	0.000	.1210752	.3126157
trgovw2	-.0772201	.0442961	-1.74	0.083	-.1644752	.010035
icdx4nr3	-76.17356	21.82587	-3.49	0.001	-119.1665	-33.18063
radtlw2	.1941549	.0421203	4.61	0.000	.1111858	.2771241
kzchorn	.281167	.0551897	5.09	0.000	.1724536	.3898804
HP2hmcare	-11.87609	3.293438	-3.61	0.000	-18.36355	-5.388622
HP2probsoc	15.33855	4.135154	3.71	0.000	7.193059	23.48404
MiPTSD	.4581705	.1284989	3.57	0.000	.2050514	.7112896
_cons	-32.40546	7.36161	-4.40	0.000	-46.90647	-17.90445

```

52 .
53 .
54 .
55 .
56 .
57 .
58 .
59 . /*
    > EQ(33) Modelling radhlw3 by OLS-CS          // wave 2   female model pass 3
    >       The dataset is: /Users/robertyaffee/Documents/data/research/chwk/phas
    > e3/data/ox/chwide6apr2012femmeold.dta
    >       The estimation sample is: 1 - 363
    >       Dropped 105 observation(s) with missing values from the sample
    >
    >               Coefficient   Std.Error       HACSE   t-HACSE   t-prob   Part.R^
    > 2
    > Constant           -33.9352        7.374        7.881      -4.31    0.0000    0.072
    > 3
    > emplw12             12.2082        3.119        3.141       3.89    0.0001    0.059
    > 7
    > emplw23             12.4106        4.324        3.621       3.43    0.0007    0.047
    > 0
    > dvcew1              14.9788        9.806        4.927       3.04    0.0026    0.037
    > 4
    > sepaw2              16.6148        8.988        5.470       3.04    0.0027    0.037
    > 3
    > suchrw1             0.455712        0.1523        0.1491       3.06    0.0025    0.037
    > 8
    > trgovw2            -0.0932683       0.04513       0.05601      -1.67    0.0972    0.011
    > 5
    > defnw1              0.151152       0.04633       0.04869       3.10    0.0021    0.038
    > 9
    > defnw2              0.213416       0.04868       0.05852       3.65    0.0003    0.052
    > 9
    > polprw2             0.111182       0.04372       0.04918       2.26    0.0247    0.021
    > 0
    > radtlw2             0.178578       0.04226       0.04576       3.90    0.0001    0.060
    > 1
    > dafter              0.385458        0.2992        0.2200       1.75    0.0810    0.012
    > 7
    > kzchorn             0.283159       0.05566       0.05505       5.14    0.0000    0.100
    > 0
    > HP2hmcare          -11.8784        3.277        3.546      -3.35    0.0009    0.045
    > 0
    > HP2probsoc          14.0480        4.145        4.061       3.46    0.0006    0.047
    > 9
    > MiPTSD              0.469413       0.1281       0.1449       3.24    0.0014    0.042
    > 2
    > icdx1nr10          -31.5085       21.96        6.411      -4.91    0.0000    0.092

```

```

> 1
> icdx1nr14          -19.6809      8.367      6.502      -3.03  0.0027  0.037
> 1
> icdx3nr7           32.6233      21.73      5.467      5.97  0.0000  0.130
> 2
> icdx4nr3          -76.3730      21.66      4.495     -17.0  0.0000  0.548
> 1
>
> sigma              21.103  RSS              105990.363
> R^2                0.628044  F(19,238) = 21.15 [0.000]**
> Adj.R^2            0.59835  log-likelihood      -1142.43
> no. of observations    258  no. of parameters      20
> mean(radhlw3)        57.5388  se(radhlw3)        33.2982
> When the log-likelihood constant is NOT included:
> AIC                 6.17318  SC                 6.44861
> HQ                  6.28393  FPE                 479.860
> When the log-likelihood constant is included:
> AIC                 9.01106  SC                 9.28648
> HQ                  9.12181  FPE                 8195.75
>
> Normality test:  Chi^2(2)  =  6.2885 [0.0431]*
> Hetero test:    F(25,229) =  1.3463 [0.1324]
> RESET23 test:   F(2,236)  =  1.5361 [0.2174]
> */
60 .
61 . subtitle "Wave 3 females radhlw3 "

```

```

Date and time:  9 Apr 2012   16:13:22
Working directory:  /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file:  chwide6apr2012femmes.
> dta
Stata version:  12.1
Operating system:  MacOSX  10.6.8  on
> Macintosh (Intel 64-bit)  with  4  processors
using  33554432 bytes of memory

```

Wave 3 females radhlw3

```

62 . des airw1 smokw1 beerw2 defnw2 shjobw3 airw3 polprw3 trrepw3 radchw3 dauthw3
>   dafter kzchorn chsize WHPpain ///
>   icdxlnr14

```

variable name	storage type	display format	value label	variable label
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
beerw2	byte	%8.0g		nuber of beers per week in 1987-1996
defnw2	byte	%8.0g		* consider hazardous (in percent) - deficiencies in essential nutrition in 1996
shjobw3	byte	%8.0g		* Percentage of strains and hassles related to job NOW
airw3	byte	%8.0g		consider hazardous (in percent) - air and water pollution NOW
polprw3	byte	%8.0g		consider hazardous (in percent) - political problems NOW
trrepw3	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 1997
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
dafter	int	%8.0g		* how many days lapsed after Chornobyl accident before you heard about the acciden
kzchorn	byte	%8.0g		* in k/z most cases of cancer in humans are known to be caused by radiation from
chsize	byte	%8.0g		* the radioactive fallout from chornobyl affected more people than the radioactive
WHPpain	float	%9.0g		Wtd Health Profile Pain Pt 1 subscale
icdxlnr14	byte	%8.0g		icdxlnr==535 gastritus & duodenitis

```

63 . pwcorr airw1 smokw1 beerw2 defnw2 shjobw3 airw3 polprw3 trrepw3 radchw3 dauthw3
    > hw3 dafter kzchorn chsize WHPpain ///
    > icdx1nr14 if gender==2, sig obs

```

	airw1	smokw1	beerw2	defnw2	shjobw3	airw3	polprw3
airw1	1.0000						
	362						
smokw1	0.0066	1.0000					
	0.8998						
	361	362					
beerw2	-0.0415	0.0008	1.0000				
	0.4330	0.9877					
	360	360	361				
defnw2	0.3606	-0.0970	0.1156	1.0000			
	0.0000	0.0653	0.0281				
	362	362	361	363			
shjobw3	0.0593	-0.0466	0.0739	0.1290	1.0000		
	0.2615	0.3770	0.1616	0.0140			
	361	361	360	362	362		
airw3	0.3566	-0.1793	-0.0693	0.2921	0.0837	1.0000	
	0.0000	0.0006	0.1891	0.0000	0.1119		
	362	362	361	363	362	363	
polprw3	0.5907	0.0470	0.0474	0.4254	0.1163	0.0902	1.0000
	0.0000	0.3727	0.3692	0.0000	0.0269	0.0860	
	362	362	361	363	362	363	363
trrepw3	-0.0258	-0.0524	0.0683	0.1291	-0.0356	0.1086	0.0299
	0.6723	0.3898	0.2634	0.0333	0.5596	0.0736	0.6238
	271	271	270	272	271	272	272
radchw3	0.1260	-0.0012	0.0426	0.3691	-0.0126	0.1836	0.1349
	0.0165	0.9816	0.4202	0.0000	0.8118	0.0004	0.0101
	362	362	361	363	362	363	363
dauthw3	0.0823	-0.0105	-0.0500	-0.0239	0.0418	0.0061	0.1765
	0.1180	0.8426	0.3438	0.6499	0.4274	0.9082	0.0007
	362	362	361	363	362	363	363
dafter	-0.1130	-0.0744	-0.0029	0.0329	0.0830	-0.0377	-0.1034
	0.0336	0.1626	0.9573	0.5369	0.1189	0.4794	0.0515
	354	354	353	355	354	355	355

kzchorn	0.0990 0.0599 362	-0.0170 0.7479 362	0.0518 0.3260 361	0.2503 0.0000 363	0.0158 0.7642 362	0.2144 0.0000 363	0.0202 0.7019 363
chsize	0.0348 0.5090 362	-0.0376 0.4763 362	-0.0560 0.2888 361	0.1531 0.0035 363	0.0224 0.6714 362	0.1265 0.0159 363	0.1091 0.0377 363
WHPpain	-0.0512 0.3318 362	0.0536 0.3093 362	-0.0014 0.9790 361	0.1184 0.0240 363	-0.0857 0.1034 362	0.0344 0.5139 363	0.0211 0.6885 363
icdxlnr14	0.0789 0.1414 349	0.0431 0.4224 349	0.0050 0.9257 348	0.0080 0.8820 350	-0.0203 0.7057 349	0.0000 0.9994 350	0.0443 0.4087 350
	trrepw3	radchw3	dauthw3	dafter	kzchorn	chsize	WHPpain
trrepw3	1.0000 272						
radchw3	0.0930 0.1260 272	1.0000 363					
dauthw3	0.1336 0.0276 272	0.0434 0.4093 363	1.0000 363				
dafter	0.1897 0.0019 266	0.0513 0.3350 355	-0.0136 0.7978 355	1.0000 355			
kzchorn	0.0471 0.4392 272	0.3047 0.0000 363	0.0094 0.8582 363	0.1293 0.0148 355	1.0000 363		
chsize	-0.0094 0.8778 272	0.2192 0.0000 363	0.1355 0.0098 363	0.0629 0.2372 355	0.3737 0.0000 363	1.0000 363	
WHPpain	-0.0480 0.4305 272	0.0478 0.3638 363	-0.0203 0.6993 363	0.0436 0.4125 355	0.0998 0.0575 363	0.1182 0.0243 363	1.0000 363
icdxlnr14	-0.0152	-0.0621	-0.0382	0.0298	-0.0306	-0.0898	-0.0848

	0.8050 267	0.2469 350	0.4762 350	0.5824 342	0.5683 350	0.0934 350	0.1132 350
	icdx1~14						
icdx1nr14	1.0000						
	350						

```

64 . des airw1 smokw1 beerw2 defnw2 shjobw3 airw3 polprw3 trrepw3 radchw3 dauthw3
> dafter kzchorn chsize WHPpain ///
> icdx1nr14

```

variable name	storage type	display format	value label	variable label
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
beerw2	byte	%8.0g		nuber of beers per week in 1987-1996
defnw2	byte	%8.0g		* consider hazardous (in percent) - deficiencies in essential nutrition in 1996
shjobw3	byte	%8.0g		* Percentage of strains and hassles related to job NOW
airw3	byte	%8.0g		consider hazardous (in percent) - air and water pollution NOW
polprw3	byte	%8.0g		consider hazardous (in percent) - political problems NOW
trrepw3	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 1997
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
dafter	int	%8.0g		* how many days lapsed after Chornobyl accident before you heard about the acciden
kzchorn	byte	%8.0g		* in k/z most cases of cancer in humans are known to be caused by radiation from
chsize	byte	%8.0g		* the radioactive fallout from

WHPpain float %9.0g
icdxlnr14 byte %8.0g

chornobyl affected more people
than the radioactive
Wtd Health Profile Pain Pt 1
subscale
icdxlnr==535 gastritis &
duodenitis

```
65 . regress radhlw3 airw1 smokw1 beerw2 defnw2 shjobw3 airw3 polprw3 trrepw3 rad
> chw3 dauthw3 dafter ///
>    kzchorn chsize WHPpain icdxlnr14 if gender==2
```

Source	SS	df	MS	Number of obs =	256
Model	173070.469	15	11538.0313	F(15, 240) =	24.34
Residual	113765.183	240	474.021596	Prob > F =	0.0000
				R-squared =	0.6034
				Adj R-squared =	0.5786
Total	286835.652	255	1124.8457	Root MSE =	21.772

radhlw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
airw1	.178657	.0627134	2.85	0.005	.055118	.3021959
smokw1	.1163746	.0861344	1.35	0.178	-.0533013	.2860506
beerw2	.8331875	.4047766	2.06	0.041	.035819	1.630556
defnw2	.3471843	.0505964	6.86	0.000	.2475146	.446854
shjobw3	-.0167494	.0409873	-0.41	0.683	-.0974903	.0639914
airw3	.1949227	.0464719	4.19	0.000	.1033779	.2864675
polprw3	-.207078	.0709922	-2.92	0.004	-.3469253	-.0672307
trrepw3	-.0893913	.0434133	-2.06	0.041	-.1749111	-.0038715
radchw3	.1546334	.0466292	3.32	0.001	.0627786	.2464882
dauthw3	.1583896	.0418573	3.78	0.000	.0759349	.2408443
dafter	.5232856	.3092162	1.69	0.092	-.0858386	1.13241
kzchorn	.2104216	.0596947	3.52	0.001	.0928293	.328014
chsize	.1101217	.0563708	1.95	0.052	-.000923	.2211664
WHPpain	.2842255	.0615885	4.61	0.000	.1629025	.4055485
icdxlnr14	-21.98472	8.55507	-2.57	0.011	-38.83733	-5.132108
_cons	-15.80484	6.334786	-2.49	0.013	-28.28373	-3.325964

```
66 . cap predict frstdlw3p3, rstandard
```

```
67 . swilk frstdlw3p3 // nonnormal
```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
frstdlw3p3	256	0.98591	2.610	2.234	0.01273

```
68 . estat hettest // good
```

Breusch-Pagan / Cook-Weisberg test for heteroskedasticity

Ho: Constant variance

Variables: fitted values of radhlw3

chi2(1) = 0.25

Prob > chi2 = 0.6174

```
69 . estat vif // good
```

Variable	VIF	1/VIF
polprw3	2.61	0.382463
airw1	2.55	0.392878
defnw2	1.73	0.578960
kzchorn	1.45	0.687978
airw3	1.45	0.689715
radchw3	1.42	0.704474
chsize	1.35	0.739702
dauthw3	1.11	0.899035
dafter	1.11	0.901738
trrepw3	1.10	0.905531
beerw2	1.07	0.934558
WHPpain	1.06	0.939710
smokw1	1.06	0.941481
shjobw3	1.06	0.947359
icdxlnr14	1.05	0.951248
Mean VIF	1.41	

```
70 . estat ovtest // good
```

Ramsey RESET test using powers of the fitted values of radhlw3

Ho: model has no omitted variables

F(3, 237) = **2.31**

Prob > F = **0.0771**

```
71 . extremes frstdlw3p3
```

obs:	frstd~3p3
318.	-2.683239
217.	-2.470804
78.	-2.446279
56.	-2.299428
259.	-2.271799

196.	1.945966
10.	1.972262
242.	2.054651
134.	2.061749
302.	2.245719

```
72 . eststo fradhlw3w3pass3
```

```
73 .
```

```
74 .
```

```
75 . di as input "Full female model for waves one two and three for
Full female model for waves one two and three for
```

```
76 . regress radhlw3 airw1 smokw1 beerw2 defnw2 shjobw3 airw3 polprw3 trrepw3 rad
> chw3 dauthw3 dafter ///
> kzechorn chsize WHPpain icdxlnr14 if gender==2, beta
```

Source	SS	df	MS
Model	173070.469	15	11538.0313
Residual	113765.183	240	474.021596
Total	286835.652	255	1124.8457

Number of obs = **256**
F(15, 240) = **24.34**
Prob > F = **0.0000**
R-squared = **0.6034**
Adj R-squared = **0.5786**
Root MSE = **21.772**

radhlw3	Coef.	Std. Err.	t	P> t	Beta
airw1	.178657	.0627134	2.85	0.005	.1847624
smokw1	.1163746	.0861344	1.35	0.178	.0566055
beerw2	.8331875	.4047766	2.06	0.041	.0865579
defnw2	.3471843	.0505964	6.86	0.000	.3666054
shjobw3	-.0167494	.0409873	-0.41	0.683	-.0170677
airw3	.1949227	.0464719	4.19	0.000	.2053147
polprw3	-.207078	.0709922	-2.92	0.004	-.1917393
trrepw3	-.0893913	.0434133	-2.06	0.041	-.0879636
radchw3	.1546334	.0466292	3.32	0.001	.1606183
dauthw3	.1583896	.0418573	3.78	0.000	.1622368
dafter	.5232856	.3092162	1.69	0.092	.0724468
kzchorn	.2104216	.0596947	3.52	0.001	.1727628
chsize	.1101217	.0563708	1.95	0.052	.0923364
WHPpain	.2842255	.0615885	4.61	0.000	.1935303
icdxlnr14	-21.98472	8.55507	-2.57	0.011	-.1071108
_cons	-15.80484	6.334786	-2.49	0.013	.

```

77 .
78 .
79 .
80 . /*
> EQ(29) Modelling radhlw3 by OLS-CS
> The dataset is: /Users/robertyaffee/Documents/data/research/chwk/phas
> e3/data/ox/chwide6apr2012femmeold.dta
> The estimation sample is: 1 - 363
> Dropped 107 observation(s) with missing values from the sample
>
>
> Coefficient Std.Error t-value t-prob Part.R^2
> shjobw3 -0.0338494 0.04062 -0.833 0.4054 0.0029
> smokw1 0.101026 0.08687 1.16 0.2460 0.0056
> beerw2 0.746231 0.4077 1.83 0.0684 0.0137
> trrepw3 -0.116531 0.04214 -2.77 0.0061 0.0306
> defnw2 0.347097 0.05115 6.79 0.0000 0.1598
> polprw3 -0.235952 0.06961 -3.39 0.0008 0.0453
> airw1 0.154278 0.06274 2.46 0.0146 0.0244
> airw3 0.221710 0.04591 4.83 0.0000 0.0879
> radchw3 0.156687 0.04682 3.35 0.0009 0.0442
> dafter 0.470830 0.3102 1.52 0.1303 0.0094
> dauthw3 0.145001 0.03979 3.64 0.0003 0.0520
> kzchorn 0.203070 0.05114 3.97 0.0001 0.0612
> WHPpain 0.270440 0.06094 4.44 0.0000 0.0753
> icdxlnr14 -25.1169 8.563 -2.93 0.0037 0.0343
>
> sigma 22.0134 RSS 117271.022
> log-likelihood -1147.51

```

```

> no. of observations      256  no. of parameters      14
> mean(radhlw3)          58.1445  se(radhlw3)          33.5387
> When the log-likelihood constant is NOT included:
> AIC                     6.23644  SC                  6.43032
> HQ                      6.31442  FPE                 511.092
> When the log-likelihood constant is included:
> AIC                     9.07432  SC                  9.26819
> HQ                      9.15229  FPE                 8729.18
>
> Normality test:  Chi^2(2)  =   5.7972 [0.0551]
> Hetero test:     F(27,228) =   1.3648 [0.1155]
> Hetero-X test:   F(105,150)=   1.3894 [0.0323]*
> RESET23 test:    F(2,240)  =   2.9910 [0.0521]
>
> */

```

```
81 . set more off
```

```
82 . subtitle "Key variables for female path analysis"
```

```

                                Date and time:   9 Apr 2012   16:13:22
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide6apr2012femmes.
> dta
                                Stata version:   12.1
                                Operating system: MacOSX   10.6.8  on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory

```

Key variables for female path analysis

```

83 . estout *, cells(b(star) se p )  stats( r2 r2_a bic N, fmt(%9.3f %9.3f %9.0f)
> )  ///
> starlevels(# .1 * .05 ** .01 *** .001 *** .0001) legend title(Female
> AutoMet Regressions for rahdlw3 as dep var)

```

Female AutoMet Regressions for rahdlw3 as dep var

	radhlw3w1p3 b/se/p	fradhlw3w2~3 b/se/p	fradhlw3w3~3 b/se/p
age	-.0519748 .197055 .7922026		
occ4w1	18.78242** 6.231123 .0028646		
childw1	1.708567		

	2.030402		
	.4009464		
shhlw1	.0893329*		
	.0433028		
	.0402371		
smokw1	.2417048**		.1163746
	.0863174		.0861344
	.0055415		.1779415
CSsocspt	.8208942**		
	.2481855		
	.001092		
lBSItotal	-6.696292		
	8.101661		
	.4093583		
BSIphanx	1.227881#		
	.6277602		
	.0516792		
WHPsociso	.2239297**		
	.0832289		
	.0076573		
HP2hmcare	-14.16171***	-11.87843***	
	3.474608	3.277128	
	.0000632	.0003538	
HP2probsoc	17.76854***	14.04801***	
	4.409342	4.14531	
	.0000759	.0008212	
beerw1	.5376221*		
	.2175558		
	.0141923		
liqw1	3.641821**		
	1.275861		
	.0047055		
mhoutw1	5.103917**		
	1.767329		
	.0042478		
goferw1	-.1855694**		
	.0568556		
	.0012663		
fdferw1	.1371401**		
	.0524126		
	.0094709		
injothr	19.49397***		
	3.771423		
	5.11e-07		
icdx1nr10	-77.121**	-31.50847	
	23.98984	21.96253	
	.001493	.1527005	
icdx1nr14	-20.68213*	-19.68091*	-21.98472*
	8.313892	8.366774	8.55507

	.0135686	.0194747	.010781
icdx3nr2	-29.72314**		
	9.041441		
	.0011694		
ecprw1	.0178597		
	.0504657		
	.7237401		
polprw1	.213913***		
	.0452141		
	3.90e-06		
radw1	-.1855987***		
	.0389341		
	3.32e-06		
radtlw1	.1500814***		
	.0401903		
	.0002374		
healthef	.2592128***		
	.05006		
	4.89e-07		
dafter	.0493589	.3854584	.5232856#
	.3055503	.2991699	.3092162
	.8718091	.1988487	.0918871
chsize	.1866962***		.1101217#
	.0523065		.0563708
	.0004357		.0519194
emplw12		12.2082***	
		3.119261	
		.0001186	
emplw23		12.41061**	
		4.323712	
		.0044692	
dvcew1		14.97883	
		9.805677	
		.1279478	
suchrw1		.4557119**	
		.1523324	
		.0030675	
defnw1		.1511518**	
		.0463286	
		.0012659	
sepaw2		16.61479#	
		8.988432	
		.0657758	
polprw2		.1111823*	
		.0437212	
		.0116255	
defnw2		.2134155***	.3471843***
		.0486768	.0505964
		.0000175	5.75e-11

trgovw2		-.0932683*	
		.0451284	
		.0398413	
radtlw2		.1785785***	
		.0422577	
		.0000339	
kzchorn		.2831592***	.2104216***
		.0556586	.0596947
		7.36e-07	.0005071
MiPTSD		.4694126***	
		.1281353	
		.0003068	
icdx3nr7		32.62334	
		21.72788	
		.1345645	
icdx4nr3		-76.37301***	
		21.659	
		.0005057	
airw1			.178657**
			.0627134
			.0047695
beerw2			.8331875*
			.4047766
			.0406327
shjobw3		-.0167494	
		.0409873	
		.6831613	
airw3		.1949227***	
		.0464719	
		.0000385	
polprw3		-.207078**	
		.0709922	
		.0038703	
trrepw3		-.0893913*	
		.0434133	
		.0405663	
radchw3		.1546334**	
		.0466292	
		.0010538	
dauthw3		.1583896***	
		.0418573	
		.0001949	
WHPpain		.2842255***	
		.0615885	
		6.41e-06	
_cons	-13.88561	-33.9352***	-15.80484*
	32.95378	7.37406	6.334786
	.6738811	6.81e-06	.0132715

r2	0.653	0.628	0.603
r2_a	0.612	0.598	0.579
bic	2426	2396	2376
N	258	258	256

p<.1, * p<.05, ** p<.01, *** p<.001, *** p<.0001