```
1 . title4 "Supporting regression analysis  R. Yaffee  16 Aug 2012"
```

Supporting regression analysis R. Yaffee 16 Aug 2012

```
2 .
3 .
4 .  des fdferw1 cumdose1 cumdose2 cumdose3 crhrw1 crhrw2  crhrw3 ///
  >   medcow1 medcow2 medcow3 ///
  >       age injselfr depagw1 depagw2 depagw3 BSIdep anxagw1 anxagw2 anxagw3 //
  > /
  >        BSIanx BSIposymp illw1 illw2 illw3 whpsleep whpel whppa
```

variable name	storage type	display format	value label	variable label
fdferw1	byte	%8.0g		* **Level (in %) of fear of eating radioactively contaminated food in 1986**
cumdose1	float	%9.0g		**cumulative external dose in mGys in wave 1**
cumdose2	float	%9.0g		**cumulative external dose in mGys in wave 2**
cumdose3	float	%9.0g		**cumulative external dose in mGys in wave 3**
crhrw1	float	%9.0g		**Chornobyl related health risk: wave 1 alpha = .796**
crhrw2	float	%9.0g		**Chornobyl related health risk: wave 2 alpha = .822**
crhrw3	float	%9.0g		**Chornobyl related health risk: wave 3 alpha = .834**
medcow1	byte	%8.0g		**number of medical visits for a medical condition per year 1976-1986**
medcow2	byte	%8.0g		**number of medical visits for a medical condition per year 1987-1996**
medcow3	byte	%8.0g		**number of medical visits for a medical condition per year 1997-now**
age	byte	%8.0g		* **Respondent's age**
injselfr	byte	%9.0g	dum	**Were u injured because of Chornobyl acc in 1986?**
depagw1	byte	%9.0g		**Depression aggregated to wave 1 in 1986**
depagw2	double	%9.0g		**Depression aggregated to wave 2: 1987 thru 1996**
depagw3	double	%9.0g		**Depression aggregated to wave three:1997 thru 2009**

```
  BSIdep          byte   %9.0g                 Brief symptom inventory
                                                 depression subscale score
  anxagw1         byte   %9.0g                 Average Anxiety level for wave 1
  anxagw2         double %9.0g                 Average Anxiety level for wave 2
  anxagw3         double %9.0g                 Average Anxiety level for wave 3
  BSIanx          byte   %9.0g                 Brief symptom inventory anxiety
                                                 subscale score
  BSIposymp       int    %9.0g                 Brief Symptom inventory positive
                                                 symptom total subscale
  illw1           byte   %8.0g                 Total number of illnesses
                                                 experienced in time period
                                                 1976-1986
  illw2           byte   %8.0g                 Total number of illnesses
                                                 experienced in time period
                                                 1987-1996
  illw3           byte   %8.0g                 Total number of illnesses
                                                 experienced in time period
                                                 1996-NOW
  whpsleep        float  %9.0g
  whpel           float  %9.0g
  whppa           float  %9.0g

5 .
6 .
7 .
8 . title "Male dose-perceived risk - anxiety and depression model"


  ********************************************************************************
  > *
  ********************************************************************************
  > *
  *****                                                                      ****
  > *
  *****                                                                      ****
  > *
  *****      Male dose-perceived risk - anxiety and depression model         ****
  > *
  *****                                                                      ****
  > *
  *****                                                                      ****
  > *
  *****                                          17 Aug 2012    00:51:51  ****
  > *
  ********************************************************************************
  > *
  ********************************************************************************
  > *
```

```
 9 .
10 . title4 "Auxiliary OLS regression models: Recording r2 and r2_a "
```

Auxiliary OLS regression models: Recording r2 and r2_a

```
11 . title4 "Preparation of nowcasting test of weak rationality"
```

Preparation of nowcasting test of weak rationality

```
12 .
13 . cap matrix drop r2amat

14 . matrix define r2amat = J(23,2,0)

15 . matrix colnames r2amat = r2 r2a

16 . matlist r2amat
```

	r2	r2a
r1	**0**	**0**
r2	**0**	**0**
r3	**0**	**0**
r4	**0**	**0**
r5	**0**	**0**
r6	**0**	**0**
r7	**0**	**0**
r8	**0**	**0**
r9	**0**	**0**
r10	**0**	**0**
r11	**0**	**0**
r12	**0**	**0**
r13	**0**	**0**
r14	**0**	**0**
r15	**0**	**0**
r16	**0**	**0**
r17	**0**	**0**
r18	**0**	**0**
r19	**0**	**0**
r20	**0**	**0**
r21	**0**	**0**
r22	**0**	**0**
r23	**0**	**0**

```
17 .
18 . * 1
19 . regress depagw1 anxagw1 fdferw1 if gender==1
```

Source	SS	df	MS		
Model	184847.958	2	92423.9788	Number of obs =	339
Residual	165346.733	336	492.103371	F(2, 336) =	187.81
				Prob > F =	0.0000
Total	350194.69	338	1036.07897	R-squared =	0.5278
				Adj R-squared =	0.5250
				Root MSE =	22.183

depagw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
anxagw1	.4536794	.0387789	11.70	0.000	.3773994	.5299595
fdferw1	.2276617	.0375959	6.06	0.000	.1537088	.3016147
_cons	-2.711011	1.581422	-1.71	0.087	-5.821746	.3997245

```
20 .    scalar r2`e(depvar)' =  e(r2)

21 .    scalar r2a`e(depvar)' = e(r2_a)

22 .    matrix define r2mat1 =   ( e(r2), e(r2_a) )

23 . * 2
24 . regress depagw2 illw1 crhrw1 anxagw2 crhrw2 anxagw1 fdferw1 if gender==1
```

Source	SS	df	MS		
Model	53748.135	6	8958.02251	Number of obs =	339
Residual	42665.1541	332	128.5095	F(6, 332) =	69.71
				Prob > F =	0.0000
Total	96413.2891	338	285.246417	R-squared =	0.5575
				Adj R-squared =	0.5495
				Root MSE =	11.336

depagw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw1	5.758001	1.794671	3.21	0.001	2.22764	9.288362
crhrw1	-3.439421	1.183639	-2.91	0.004	-5.767799	-1.111043
anxagw2	.5925984	.0425837	13.92	0.000	.5088306	.6763663
crhrw2	2.24275	1.237758	1.81	0.071	-.1920875	4.677588
anxagw1	-.0259494	.0227965	-1.14	0.256	-.0707931	.0188943
fdferw1	.0827349	.020009	4.13	0.000	.0433745	.1220953
_cons	.3914963	.9379176	0.42	0.677	-1.453514	2.236507

```
25 .         scalar r2`e(depvar)' =  e(r2)

26 .    scalar r2a`e(depvar)' = e(r2_a)

27 .     matrix define r2mat2 =   ( e(r2), e(r2_a) )

28 .
29 . *3
30 . regress BSIdep BSIposymp illw2 medcow2 if gender==1
```

Source	SS	df	MS		
Model	1606.24486	3	535.414952	Number of obs =	339
Residual	1175.79644	335	3.50984012	F(3, 335) =	152.55
				Prob > F =	0.0000
Total	2782.0413	338	8.23089141	R-squared =	0.5774
				Adj R-squared =	0.5736
				Root MSE =	1.8735

BSIdep	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
BSIposymp	.0900334	.0047997	18.76	0.000	.0805921	.0994747
illw2	-.6450078	.1845199	-3.50	0.001	-1.007971	-.2820441
medcow2	.144335	.0358145	4.03	0.000	.0738853	.2147847
_cons	1.290468	.3519577	3.67	0.000	.5981421	1.982793

```
31 .       cap predict rm`e(depvar)', xb

32 .       scalar r2`e(depvar)' =  e(r2)

33 .    scalar r2a`e(depvar)' = e(r2_a)

34 .        matrix define r2mat3 =   ( e(r2), e(r2_a) )

35 . *4
36 .
37 . regress illw1 depagw1 medcow1 if gender==1
```

Source	SS	df	MS		
Model	2.29300308	2	1.14650154	Number of obs =	338
Residual	41.8638017	335	.124966572	F(2, 335) =	9.17
				Prob > F =	0.0001
Total	44.1568047	337	.131029094	R-squared =	0.0519
				Adj R-squared =	0.0463
				Root MSE =	.35351

illw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw1	.0014521	.0005978	2.43	0.016	.0002762	.0026279
medcow1	.0311646	.0086795	3.59	0.000	.0140915	.0482378
_cons	.0378126	.0231605	1.63	0.103	-.0077457	.0833709

```
38 .      scalar r2`e(depvar)' =  e(r2)

39 .     scalar r2a`e(depvar)' = e(r2_a)

40 .      matrix define r2mat4 =   ( e(r2), e(r2_a) )

41 .
42 . *5
43 . regress BSIposymp depagw1 BSIdep BSIanx whpsleep if gender==1
```

Source	SS	df	MS		
Model	151309.603	4	37827.4007	Number of obs	= 339
Residual	29304.9104	334	87.7392527	F(4, 334)	= 431.13
				Prob > F	= 0.0000
Total	180614.513	338	534.362465	R-squared	= 0.8377
				Adj R-squared	= 0.8358
				Root MSE	= 9.3669

BSIposymp	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw1	.1620037	.016509	9.81	0.000	.1295289	.1944784
BSIdep	3.09967	.2183341	14.20	0.000	2.670187	3.529154
BSIanx	3.728887	.235765	15.82	0.000	3.265116	4.192659
whpsleep	.1580887	.0237209	6.66	0.000	.1114275	.2047499
_cons	16.07115	1.750253	9.18	0.000	12.62824	19.51406

```
44 .       cap predict rm`e(depvar)', xb
```

```
45 .            scalar r2`e(depvar)' =  e(r2)

46 .      scalar r2a`e(depvar)' = e(r2_a)

47 .      matrix define r2mat5 =  (e(r2), e(r2_a))

48 .
49 .  * 6
50 . regress medcow1 crhrw1 if gender==1
```

Source	SS	df	MS		
Model	**85.423669**	**1**	**85.423669**	Number of obs =	**338**
Residual	**1574.5645**	**336**	**4.68620386**	F(1, 336) =	**18.23**
				Prob > F =	**0.0000**
				R-squared =	**0.0515**
				Adj R-squared =	**0.0486**
Total	**1659.98817**	**337**	**4.92578091**	Root MSE =	**2.1648**

medcow1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhrw1	**.5424444**	**.1270506**	**4.27**	**0.000**	**.2925296**	**.7923592**
_cons	**1.085212**	**.1192033**	**9.10**	**0.000**	**.8507328**	**1.319691**

```
51 .        scalar r2`e(depvar)' =  e(r2)

52 .       scalar r2a`e(depvar)' = e(r2_a)

53 .       matrix define r2mat6 = (e(r2), e(r2_a))

54 .
55 . regress crhrw1 depagw1 illw1 fdferw1 injselfr if gender==1
```

Source	SS	df	MS		
Model	**79.2838372**	**4**	**19.8209593**	Number of obs =	**339**
Residual	**212.920272**	**334**	**.637485843**	F(4, 334) =	**31.09**
				Prob > F =	**0.0000**
				R-squared =	**0.2713**
				Adj R-squared =	**0.2626**
Total	**292.204109**	**338**	**.864509198**	Root MSE =	**.79843**

crhrw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw1	.0049012	.0016787	2.92	0.004	.0015991	.0082033
illw1	-.1715155	.1201265	-1.43	0.154	-.4078154	.0647843
fdferw1	.0053061	.0013959	3.80	0.000	.0025602	.008052
injselfr	.5273121	.093367	5.65	0.000	.3436507	.7109736
_cons	-.6402352	.0661548	-9.68	0.000	-.7703678	-.5101025

```
56 .         scalar r2`e(depvar)' =  e(r2)

57 .         scalar r2a`e(depvar)' = e(r2_a)

58 .         matrix define r2mat7 = (e(r2), e(r2_a))

59 .
60 . regress depagw3 depagw1 depagw2 crhrw1 cumdose2 crhrw3 illw3 if gender==1
```

Source	SS	df	MS		
Model	61694.8247	6	10282.4708	Number of obs	= 339
Residual	42975.8987	332	129.445478	F(6, 332)	= 79.43
				Prob > F	= 0.0000
Total	104670.723	338	309.676696	R-squared	= 0.5894
				Adj R-squared	= 0.5820
				Root MSE	= 11.377

depagw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw1	-.0354006	.0233419	-1.52	0.130	-.0813173	.0105162
depagw2	.6668978	.0437123	15.26	0.000	.5809099	.7528857
crhrw1	-3.773081	1.139597	-3.31	0.001	-6.014822	-1.531339
cumdose2	-.5864602	.2494682	-2.35	0.019	-1.077198	-.0957225
crhrw3	5.965955	1.20706	4.94	0.000	3.591506	8.340405
illw3	2.477963	.7716596	3.21	0.001	.9600045	3.995922
_cons	4.34228	.8836078	4.91	0.000	2.604104	6.080456

```
61 .          scalar r2`e(depvar)' =  e(r2)

62 .         scalar r2a`e(depvar)' = e(r2_a)

63 .          matrix define r2mat8 = (e(r2), e(r2_a))

64 .
65 . regress illw2 depagw3 crhrw1 crhrw2 if gender==1
```

Source	SS	df	MS		
Model	19.891008	3	6.630336	Prob > F	0.0000
Residual	98.4865731	335	.29398977	R-squared	0.1680
Total	118.377581	338	.35022953	Adj R-squared	0.1606
				Root MSE	.54221

Number of obs = 339
F(3, 335) = 22.55

illw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw3	.00601	.001911	3.14	0.002	.002251	.009769
crhrw1	-.2839257	.0588366	-4.83	0.000	-.3996614	-.16819
crhrw2	.3258754	.0628707	5.18	0.000	.2022043	.4495466
_cons	.2425712	.0364671	6.65	0.000	.1708379	.3143045

```
66 .          scalar r2`e(depvar)' =  e(r2)

67 .          scalar r2a`e(depvar)' = e(r2_a)

68 .         matrix define r2mat9 = (e(r2), e(r2_a))

69 .
70 . regress medcow2 depagw2 medcow1 illw2 if gender==1
```

Source	SS	df	MS		
Model	1347.12708	3	449.042361	Prob > F	0.0000
Residual	1807.59481	334	5.41196051	R-squared	0.4270
Total	3154.72189	337	9.36119256	Adj R-squared	0.4219
				Root MSE	2.3264

Number of obs = 338
F(3, 334) = 82.97

medcow2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw2	.0278643	.0080299	3.47	0.001	.0120687	.0436598
medcow1	.7636232	.0575619	13.27	0.000	.6503937	.8768527
illw2	1.014412	.2285359	4.44	0.000	.5648612	1.463963
_cons	.5475468	.1550239	3.53	0.000	.2426006	.852493

```
71 .        scalar r2`e(depvar)' =  e(r2)

72 .          scalar r2a`e(depvar)' = e(r2_a)

73 .           matrix define r2mat10 = (e(r2), e(r2_a))

74 .
75 . regress anxagw3 depagw2 illw1 depagw3 anxagw2 fdferw1 if gender==1
```

Source	SS	df	MS		
Model	99696.6482	5	19939.3296	Number of obs	= 339
Residual	19834.1502	333	59.5620127	F(5, 333)	= 334.77
				Prob > F	= 0.0000
Total	119530.798	338	353.641415	R-squared	= 0.8341
				Adj R-squared	= 0.8316
				Root MSE	= 7.7176

anxagw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw2	-.1972336	.0419947	-4.70	0.000	-.2798419	-.1146254
illw1	5.395416	1.234547	4.37	0.000	2.966921	7.82391
depagw3	.5306223	.0347532	15.27	0.000	.4622587	.5989858
anxagw2	.6519456	.0331321	19.68	0.000	.5867711	.7171202
fdferw1	-.0245326	.0115412	-2.13	0.034	-.0472354	-.0018297
_cons	.7281975	.5679273	1.28	0.201	-.3889799	1.845375

```
76 .         scalar r2`e(depvar)' =  e(r2)
```

```
77 .          scalar r2a`e(depvar)' = e(r2_a)

78 .           matrix define r2mat11= (e(r2), e(r2_a))

79 .
80 . regress cumdose2 depagw2 cumdose1 if gender==1
```

Source	SS	df	MS		
Model	1698.83219	2	849.416094	Number of obs =	339
Residual	426.252129	336	1.26860753	F(2, 336) =	669.57
				Prob > F =	0.0000
				R-squared =	0.7994
				Adj R-squared =	0.7982
Total	2125.08432	338	6.28723171	Root MSE =	1.1263

cumdose2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw2	.007044	.003631	1.94	0.053	-.0000982	.0141863
cumdose1	1.336449	.0366943	36.42	0.000	1.264269	1.408629
_cons	.3296942	.0699476	4.71	0.000	.1921038	.4672846

```
81 .           scalar r2`e(depvar)' =  e(r2)

82 .          scalar r2a`e(depvar)' = e(r2_a)

83 .           matrix define r2mat12= (e(r2), e(r2_a))

84 .
85 . regress cumdose3 depagw2 cumdose2 cumdose1 if gender==1
```

Source	SS	df	MS		
Model	2393.31115	3	797.770382	Number of obs =	339
Residual	21.7733284	335	.06499501	F(3, 335) =	12274.33
				Prob > F =	0.0000
				R-squared =	0.9910
				Adj R-squared =	0.9909
Total	2415.08448	338	7.14522034	Root MSE =	.25494

cumdose3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
depagw2	-.0019481	.0008264	-2.36	0.019	-.0035738	-.0003224
cumdose2	1.090281	.0123483	88.29	0.000	1.065991	1.11457
cumdose1	-.0471668	.0184751	-2.55	0.011	-.0835086	-.0108251
_cons	.2070086	.0163475	12.66	0.000	.1748518	.2391654

```
86 .           scalar r2`e(depvar)' =  e(r2)

87 .          scalar r2a`e(depvar)' = e(r2_a)

88 .            matrix define r2mat13= (e(r2), e(r2_a))

89 .
90 .
91 . regress anxagw2 illw1 medcow2 cumdose2 anxagw1 if gender==1
```

Source	SS	df	MS		
Model	46220.605	4	11555.1512	Number of obs =	339
Residual	69755.0632	334	208.847495	F(4, 334) =	55.33
				Prob > F =	0.0000
				R-squared =	0.3985
				Adj R-squared =	0.3913
Total	115975.668	338	343.123279	Root MSE =	14.452

anxagw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw1	10.79969	2.187119	4.94	0.000	6.49742	15.10195
medcow2	1.24292	.2564972	4.85	0.000	.7383666	1.747474
cumdose2	-.1298302	.3143548	-0.41	0.680	-.7481949	.4885346
anxagw1	.2495018	.020958	11.90	0.000	.2082755	.290728
_cons	-.0594009	1.06516	-0.06	0.956	-2.154668	2.035866

```
92 .          scalar r2`e(depvar)' =  e(r2)

93 .          scalar r2a`e(depvar)' = e(r2_a)

94 .            matrix define r2mat14= (e(r2), e(r2_a))

95 .
96 .
97 .
98 . regress BSIanx illw1 depagw3 medcow2 anxagw3 anxagw2 crhrw2 illw3 whpsleep /
   > //
   >          whppa if gender==1
```

Source	SS	df	MS		
Model	1124.6487	9	124.960967	Number of obs =	339
Residual	1475.72888	329	4.48549812	F(9, 329) =	27.86
				Prob > F =	0.0000
				R-squared =	0.4325
				Adj R-squared =	0.4170
Total	2600.37758	338	7.6934248	Root MSE =	2.1179

BSIanx	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw1	-.8552806	.3452502	-2.48	0.014	-1.534457	-.1761043
depagw3	.0524634	.0108734	4.82	0.000	.0310731	.0738536
medcow2	.1854469	.0392489	4.72	0.000	.1082364	.2626574
anxagw3	-.0483421	.0144593	-3.34	0.001	-.0767865	-.0198977
anxagw2	.0169877	.0115318	1.47	0.142	-.0056977	.039673
crhrw2	.3457007	.1478085	2.34	0.020	.0549317	.6364697
illw3	.884257	.1400506	6.31	0.000	.6087493	1.159765
whpsleep	.0396721	.0053664	7.39	0.000	.0291154	.0502289
whppa	-.0196365	.0091673	-2.14	0.033	-.0376705	-.0016025
_cons	6.293182	.1878344	33.50	0.000	5.923674	6.66269

```
 99 .          cap predict rm`e(depvar)', xb

100 .             scalar r2`e(depvar)' =  e(r2)

101 .          scalar r2a`e(depvar)' = e(r2_a)

102 .            matrix define r2mat15= (e(r2), e(r2_a))

103 .
104 .
105 . regress crhrw2 illw1 crhrw1 anxagw2 injselfr if gender==1
```

Source	SS	df	MS		
Model	204.876698	4	51.2191746	Number of obs	= 339
Residual	82.3170403	334	.246458205	F(4, 334)	= 207.82
				Prob > F	= 0.0000
Total	287.193739	338	.849685618	R-squared	= 0.7134
				Adj R-squared	= 0.7099
				Root MSE	= .49645

crhrw2	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw1	.1900849	.0777336	2.45	0.015	.0371757	.342994
crhrw1	.7288098	.0324072	22.49	0.000	.6650618	.7925577
anxagw2	.0072962	.0015994	4.56	0.000	.00415	.0104424
injselfr	.1965402	.0600031	3.28	0.001	.0785086	.3145717
_cons	-.2646945	.0429427	-6.16	0.000	-.3491667	-.1802222

```
106 .          scalar r2`e(depvar)' =  e(r2)

107 .          scalar r2a`e(depvar)' = e(r2_a)

108 .            matrix define r2mat16= (e(r2), e(r2_a))

109 .
110 . regress crhrw3 illw1 crhrw1 crhrw2 illw3 injselfr if gender==1
```

Source	SS	df	MS		
Model	265.77834	5	53.155668	Number of obs =	339
Residual	20.8794079	333	.062700925	F(5, 333) =	847.77
				Prob > F =	0.0000
Total	286.657748	338	.848099845	R-squared =	0.9272
				Adj R-squared =	0.9261
				Root MSE =	.2504

crhrw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw1	-.0323466	.0384127	-0.84	0.400	-.1079087	.0432154
crhrw1	-.0883487	.0289049	-3.06	0.002	-.145208	-.0314894
crhrw2	1.004041	.0301183	33.34	0.000	.9447949	1.063287
illw3	.0492582	.0167767	2.94	0.004	.0162566	.0822597
injselfr	.0651515	.0307976	2.12	0.035	.0045691	.1257338
_cons	-.0663371	.0231057	-2.87	0.004	-.1117887	-.0208856

```
111 .            scalar r2`e(depvar)' =  e(r2)

112 .          scalar r2a`e(depvar)' = e(r2_a)

113 .            matrix define r2mat17= (e(r2), e(r2_a))

114 .
115 .
116 . regress illw3 crhrw1 illw2 medcow2 cumdose3 crhrw2 medcow3 injselfr if gende
    > r==1
```

Source	SS	df	MS		
Model	102.84395	7	14.6919929	Number of obs =	338
Residual	199.644215	330	.60498247	F(7, 330) =	24.28
				Prob > F =	0.0000
Total	302.488166	337	.897590996	R-squared =	0.3400
				Adj R-squared =	0.3260
				Root MSE =	.77781

illw3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
crhrw1	-.6567103	.0836584	-7.85	0.000	-.8212813	-.4921393
illw2	.3676523	.0803016	4.58	0.000	.2096847	.52562
medcow2	-.0502276	.0184639	-2.72	0.007	-.0865495	-.0139057
cumdose3	.0333547	.016036	2.08	0.038	.0018091	.0649003
crhrw2	.6793926	.0878231	7.74	0.000	.5066288	.8521564
medcow3	.0592431	.0159492	3.71	0.000	.0278681	.0906181
injselfr	.1624074	.0962899	1.69	0.093	-.0270121	.3518268
_cons	.2292543	.0783549	2.93	0.004	.0751163	.3833923

```
117 .            scalar r2`e(depvar)' =  e(r2)

118 .          scalar r2a`e(depvar)' = e(r2_a)

119 .           matrix define r2mat18 = (e(r2), e(r2_a))

120 .
121 . regress whpsleep illw2 crhrw3 anxagw1 fdferw1 medcow3 if gender==1
```

Source	SS	df	MS		
Model	51366.3364	5	10273.2673	Prob > F	= 0.0000
Residual	156970.13	332	472.801598	R-squared	= 0.2466
				Adj R-squared	= 0.2352
Total	208336.467	337	618.2091	Root MSE	= 21.744

Number of obs = 338
F(5, 332) = 21.73

whpsleep	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
illw2	5.738912	2.089232	2.75	0.006	1.629112	9.848713
crhrw3	5.601383	1.517028	3.69	0.000	2.617183	8.585582
anxagw1	.0601437	.0395053	1.52	0.129	-.0175686	.1378561
fdferw1	.1207726	.0380591	3.17	0.002	.0459051	.19564
medcow3	1.04402	.3492391	2.99	0.003	.35702	1.731021
_cons	8.592064	2.080902	4.13	0.000	4.498648	12.68548

```
122 .          cap predict rm`e(depvar)', xb

123 .            scalar r2`e(depvar)' =  e(r2)

124 .          scalar r2a`e(depvar)' = e(r2_a)

125 .           matrix define r2mat19 = (e(r2), e(r2_a))

126 .
127 .
128 . regress whppa cumdose2 cumdose3 illw3 whpel fdferw1 injselfr cumdose1 if gen
    > der==1
```

Source	SS	df	MS		
Model	**26479.3897**	**7**	**3782.76996**	Number of obs =	**339**
Residual	**45199.4294**	**331**	**136.554167**	F(7, 331) =	**27.70**
				Prob > F =	**0.0000**
Total	**71678.8192**	**338**	**212.067512**	R-squared =	**0.3694**
				Adj R-squared =	**0.3561**
				Root MSE =	**11.686**

whppa	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
cumdose2	**-3.304536**	**2.777147**	**-1.19**	**0.235**	**-8.76762**	**2.158548**
cumdose3	**2.449841**	**2.50026**	**0.98**	**0.328**	**-2.468563**	**7.368246**
illw3	**3.959552**	**.697171**	**5.68**	**0.000**	**2.588107**	**5.330997**
whpel	**.2194155**	**.0230335**	**9.53**	**0.000**	**.174105**	**.264726**
fdferw1	**-.0257796**	**.017895**	**-1.44**	**0.151**	**-.0609819**	**.0094227**
injselfr	**5.148104**	**1.384196**	**3.72**	**0.000**	**2.425174**	**7.871034**
cumdose1	**.2297733**	**.8592782**	**0.27**	**0.789**	**-1.460562**	**1.920108**
_cons	**.7872108**	**1.114328**	**0.71**	**0.480**	**-1.404847**	**2.979269**

```
129 .        cap predict rm`e(depvar)', xb

130 .          scalar r2`e(depvar)' =  e(r2)
```

```
131 .          scalar r2a`e(depvar)' = e(r2_a)

132 .           matrix define r2mat20 = (e(r2), e(r2_a))

133 .
134 . regress anxagw1 fdferw1 injselfr if gender==1
```

Source	SS	df	MS		
Model	179836.452	2	89918.2259	Number of obs =	339
Residual	303866.793	336	904.365455	F(2, 336) =	99.43
				Prob > F =	0.0000
				R-squared =	0.3718
				Adj R-squared =	0.3681
Total	483703.245	338	1431.07469	Root MSE =	30.073

anxagw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
fdferw1	.4744507	.0445692	10.65	0.000	.3867808	.5621206
injselfr	17.65768	3.473424	5.08	0.000	10.82529	24.49008
_cons	-.2838498	2.472931	-0.11	0.909	-5.148226	4.580527

```
135 .           cap predict rm`e(depvar)', xb

136 .            scalar r2`e(depvar)' =  e(r2)

137 .          scalar r2a`e(depvar)' = e(r2_a)

138 .           matrix define r2mat21 = (e(r2), e(r2_a))

139 .
140 . regress fdferw1 injselfr if gender==1
```

Source	SS	df	MS		
Model	59349.7798	1	59349.7798	Number of obs =	339
Residual	455274.58	337	1350.96315	F(1, 337) =	43.93
				Prob > F =	0.0000
				R-squared =	0.1153
				Adj R-squared =	0.1127
Total	514624.36	338	1522.55728	Root MSE =	36.755

fdferw1	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
injselfr	26.46592	3.992998	6.63	0.000	18.61158	34.32026
_cons	18.77246	2.844222	6.60	0.000	13.17779	24.36712

```
141 .           scalar r2`e(depvar)' =  e(r2)

142 .          scalar r2a`e(depvar)' = e(r2_a)

143 .           matrix define r2mat22= (e(r2), e(r2_a))

144 .
145 . regress medcow3 medcow2 anxagw3 if gender==1
```

Source	SS	df	MS		
Model	**1866.37185**	**2**	**933.185926**	Number of obs =	**338**
Residual	**2303.21691**	**335**	**6.87527435**	F(2, 335) =	**135.73**
				Prob > F =	**0.0000**
				R-squared =	**0.4476**
				Adj R-squared =	**0.4443**
Total	**4169.58876**	**337**	**12.3726669**	Root MSE =	**2.6221**

medcow3	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
medcow2	**.6843423**	**.0474819**	**14.41**	**0.000**	**.5909422**	**.7777425**
anxagw3	**.0319993**	**.0078419**	**4.08**	**0.000**	**.0165737**	**.0474248**
_cons	**1.170719**	**.1750828**	**6.69**	**0.000**	**.8263188**	**1.515119**

```
146 .             scalar r2`e(depvar)' =  e(r2)

147 .          scalar r2a`e(depvar)' = e(r2_a)

148 .           matrix define r2mat23= (e(r2), e(r2_a))

149 .
150 .  // storing the r2 and r2_a in a matrix for review
151 .
152 . matrix define r2amat = J(23,2,0)

153 . matrix colnames r2amat = r2 r2a
```

```
154 . matlist r2amat
```

	r2	r2a
r1	**0**	**0**
r2	**0**	**0**
r3	**0**	**0**
r4	**0**	**0**
r5	**0**	**0**
r6	**0**	**0**
r7	**0**	**0**
r8	**0**	**0**
r9	**0**	**0**
r10	**0**	**0**
r11	**0**	**0**
r12	**0**	**0**
r13	**0**	**0**
r14	**0**	**0**
r15	**0**	**0**
r16	**0**	**0**
r17	**0**	**0**
r18	**0**	**0**
r19	**0**	**0**
r20	**0**	**0**
r21	**0**	**0**
r22	**0**	**0**
r23	**0**	**0**

```
155 . matrix rownames r2amat = depagw1 depagw2 BSIdep illw1 BSIposymp medcow1 ///
    >                          crhrw1 depagw3 illw2 medcow2 anxagw3 cumdose2 ///
    >                          cumdos3  anxagw2 BSIanx crhrw2 crhrw3 illw3 ///
    >                           whpsleep whppa anxagw1 fdferw1 medcow3

156 .
157 .
158 . matrix r2amat = ( r2mat1 \ r2mat2 \ r2mat3 \ r2mat4 \ r2mat5 \ r2mat6 \ ///
    >      r2mat7 \ r2mat8 \ r2mat9 \ r2mat10 \ r2mat11 \ r2mat12 \ r2mat13 \ ///
    >      r2mat14 \ r2mat15 \ r2mat16 \ r2mat17 \ r2mat18 \ r2mat19 \ r2mat20 \ /
    > //
    >      r2mat21 \ r2mat22 \r2mat23 )
```

```
159 .
160 . matlist r2amat
```

	c1	c2
r1	.5278434	.5250329
r1	.5574764	.549479
r1	.577362	.5735772
r1	.0519286	.0462685
r1	.8377489	.8358057
r1	.0514604	.0486374
r1	.2713303	.2626037
r1	.5894182	.581998
r1	.1680302	.1605797
r1	.4270193	.4218728
r1	.8340666	.8315751
r1	.7994187	.7982248
r1	.9909844	.9909037
r1	.3985371	.3913339
r1	.4324944	.4169699
r1	.7133745	.7099419
r1	.9271626	.9260689
r1	.3399933	.3259932
r1	.2465547	.2352076
r1	.3694172	.3560816
r1	.3717909	.3680515
r1	.1153264	.1127013
r1	.4476153	.4443175

```
161 . forvalues i=1/23 {
      2.   matrix drop r2mat`i'
      3. }

162 . cap svmat r2amat, name(r2amatdepv4)

163 .
164 . // obtaining multivariate r2
```

```
165 .
166 . mvreg BSIanx BSIposymp BSIdep = fdferw1 cumdose1 cumdose2 cumdose3 crhrw1 cr
    > hrw2  crhrw3 ///
    >     age injselfr depagw1 depagw2 whpsleep whppa if gender==1
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
BSIanx	**339**	**14**	**2.351195**	**0.3091**	**11.18392**	**0.0000**
BSIposymp	**339**	**14**	**16.44685**	**0.5133**	**26.36221**	**0.0000**
BSIdep	**339**	**14**	**2.588835**	**0.2171**	**6.930927**	**0.0000**

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
BSIanx						
fdferw1	.003258	.0043478	0.75	0.454	-.0052954	.0118113
cumdose1	.1282023	.1779857	0.72	0.472	-.2219473	.4783518
cumdose2	-.7167036	.5712671	-1.25	0.211	-1.840552	.4071445
cumdose3	.6388472	.5122805	1.25	0.213	-.3689571	1.646651
crhrw1	-.5871627	.2566873	-2.29	0.023	-1.092141	-.0821844
crhrw2	.5016884	.5917053	0.85	0.397	-.6623675	1.665744
crhrw3	.5823711	.5169208	1.13	0.261	-.4345621	1.599304
age	-.0013998	.0121007	-0.12	0.908	-.0252054	.0224058
injselfr	-.6124489	.3061646	-2.00	0.046	-1.214764	-.0101342
depagw1	.001937	.0054734	0.35	0.724	-.0088307	.0127048
depagw2	.0250135	.0093155	2.69	0.008	.0066872	.0433398
whpsleep	.0366018	.0060744	6.03	0.000	.0246517	.0485519
whppa	.0036554	.0101101	0.36	0.718	-.0162341	.0235449
_cons	6.94855	.6092283	11.41	0.000	5.750021	8.147079
BSIposymp						
fdferw1	.0603984	.0304132	1.99	0.048	.0005669	.1202299
cumdose1	.0823051	1.245028	0.07	0.947	-2.367027	2.531637
cumdose2	-3.258191	3.996072	-0.82	0.415	-11.11962	4.603242
cumdose3	2.967886	3.583454	0.83	0.408	-4.081808	10.01758
crhrw1	-2.48545	1.795554	-1.38	0.167	-6.017825	1.046924
crhrw2	4.083578	4.139039	0.99	0.325	-4.059112	12.22627
crhrw3	2.794922	3.615914	0.77	0.440	-4.31863	9.908474
age	.0888331	.0846457	1.05	0.295	-.0776895	.2553557
injselfr	-2.935944	2.141653	-1.37	0.171	-7.149197	1.277308
depagw1	.1154841	.0382868	3.02	0.003	.0401627	.1908054
depagw2	.1773272	.0651628	2.72	0.007	.0491331	.3055213
whpsleep	.3328262	.042491	7.83	0.000	.2492341	.4164184
whppa	.1632711	.0707211	2.31	0.022	.0241422	.3023999
_cons	59.83935	4.261615	14.04	0.000	51.45552	68.22318
BSIdep						
fdferw1	.0063005	.0047872	1.32	0.189	-.0031174	.0157183
cumdose1	-.1399772	.1959751	-0.71	0.476	-.525517	.2455626

cumdose2	-.779871	.6290061	-1.24	0.216	-2.017308	.4575664
cumdose3	.8156657	.5640576	1.45	0.149	-.2939992	1.925331
crhrw1	-.2609636	.2826311	-0.92	0.357	-.816981	.2950537
crhrw2	.3505925	.65151	0.54	0.591	-.9311167	1.632302
crhrw3	.0854631	.5691669	0.15	0.881	-1.034253	1.20518
age	.0049874	.0133237	0.37	0.708	-.0212243	.0311991
injselfr	-.1154792	.3371092	-0.34	0.732	-.7786709	.5477125
depagw1	-.0027732	.0060266	-0.46	0.646	-.0146292	.0090829
depagw2	.02221	.010257	2.17	0.031	.0020315	.0423886
whpsleep	.0297519	.0066883	4.45	0.000	.016594	.0429098
whppa	.0244491	.0111319	2.20	0.029	.0025493	.0463488
_cons	6.696692	.6708042	9.98	0.000	5.377026	8.016358

```
167 .
168 .  mvreg BSIanx BSIposymp BSIdep = fdferw1 cumdose1 cumdose2 cumdose3 crhrw1 c
    > rhrw2  crhrw3 ///
    >    medcow1 medcow2 medcow3 ///
    >     age injselfr depagw1 depagw2  anxagw1 anxagw2 ///
    >     illw1 illw2 illw3 whpsleep whpel whppa if gender==2
```

Equation	Obs	Parms	RMSE	"R-sq"	F	P
BSIanx	360	23	2.730021	0.4780	14.0287	0.0000
BSIposymp	360	23	19.31309	0.5583	19.36239	0.0000
BSIdep	360	23	3.159339	0.3353	7.726847	0.0000

	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
BSIanx						
fdferw1	.0012503	.0042369	0.30	0.768	-.0070838	.0095844
cumdose1	.3999633	.5579785	0.72	0.474	-.6975962	1.497523
cumdose2	.266729	.7144901	0.37	0.709	-1.138693	1.672151
cumdose3	-.1914546	.5196138	-0.37	0.713	-1.21355	.8306405
crhrw1	-.6362878	.2656711	-2.40	0.017	-1.15887	-.1137052
crhrw2	.7568219	.609687	1.24	0.215	-.4424496	1.956093
crhrw3	-.2563783	.5653857	-0.45	0.651	-1.368508	.8557514
medcow1	-.0590775	.0487521	-1.21	0.226	-.1549741	.0368192
medcow2	-.0281662	.0313736	-0.90	0.370	-.089879	.0335466
medcow3	.0298122	.0395478	0.75	0.451	-.0479794	.1076038
age	-.0236131	.0150943	-1.56	0.119	-.053304	.0060778
injselfr	.4067987	.3838287	1.06	0.290	-.3482031	1.161801
depagw1	.0162968	.0076762	2.12	0.034	.0011976	.0313961
depagw2	.0123493	.0113591	1.09	0.278	-.0099944	.034693
anxagw1	.0053915	.0061962	0.87	0.385	-.0067966	.0175797
anxagw2	.0108364	.009252	1.17	0.242	-.0073625	.0290354
illw1	.9005321	.3387022	2.66	0.008	.2342953	1.566769
illw2	.5532834	.19124	2.89	0.004	.1771089	.9294578

illw3	.2266081	.1643137	1.38	0.169	-.0966017	.5498178
whpsleep	.0368599	.0060998	6.04	0.000	.0248613	.0488585
whpel	.014685	.0055412	2.65	0.008	.0037852	.0255848
whppa	-.0084197	.0097645	-0.86	0.389	-.0276267	.0107873
_cons	7.438192	.755431	9.85	0.000	5.952238	8.924147
BSIposymp						
fdferw1	.0213427	.0299733	0.71	0.477	-.0376156	.0803009
cumdose1	2.246213	3.947329	0.57	0.570	-5.518294	10.01072
cumdose2	3.256404	5.054545	0.64	0.520	-6.686028	13.19884
cumdose3	-2.772541	3.675924	-0.75	0.451	-10.00319	4.458106
crhrw1	-.8484008	1.879447	-0.45	0.652	-4.545327	2.848525
crhrw2	.3299001	4.313132	0.08	0.939	-8.154153	8.813953
crhrw3	1.116621	3.99973	0.28	0.780	-6.750961	8.984203
medcow1	.1201247	.3448886	0.35	0.728	-.558281	.7985304
medcow2	.0901804	.2219476	0.41	0.685	-.3463968	.5267576
medcow3	-.5094532	.2797745	-1.82	0.070	-1.059777	.0408712
age	-.0220852	.106782	-0.21	0.836	-.2321285	.1879581
injselfr	6.391694	2.715334	2.35	0.019	1.050555	11.73283
depagw1	.0240985	.0543038	0.44	0.657	-.0827186	.1309156
depagw2	.1131496	.0803583	1.41	0.160	-.0449174	.2712166
anxagw1	.0760795	.0438342	1.74	0.084	-.0101436	.1623026
anxagw2	-.0108605	.0654519	-0.17	0.868	-.1396063	.1178853
illw1	.5773221	2.396094	0.24	0.810	-4.135863	5.290507
illw2	5.053475	1.352896	3.74	0.000	2.39229	7.714661
illw3	3.268285	1.162411	2.81	0.005	.9817898	5.55478
whpsleep	.2696174	.0431524	6.25	0.000	.1847355	.3544994
whpel	.2410171	.0392006	6.15	0.000	.1639084	.3181259
whppa	-.0348957	.0690773	-0.51	0.614	-.1707727	.1009812
_cons	61.75439	5.344175	11.56	0.000	51.24225	72.26653
BSIdep						
fdferw1	-.0006891	.0049032	-0.14	0.888	-.0103338	.0089556
cumdose1	.3828228	.6457253	0.59	0.554	-.8873371	1.652983
cumdose2	.550443	.8268496	0.67	0.506	-1.075994	2.17688
cumdose3	-.410032	.6013274	-0.68	0.496	-1.59286	.772796
crhrw1	-.0786815	.3074501	-0.26	0.798	-.6834445	.5260815
crhrw2	-.2692835	.7055653	-0.38	0.703	-1.65715	1.118583
crhrw3	.6885605	.6542973	1.05	0.293	-.5984608	1.975582
medcow1	.0317393	.0564187	0.56	0.574	-.079238	.1427165
medcow2	-.0072567	.0363074	-0.20	0.842	-.0786744	.0641609
medcow3	-.0631278	.045767	-1.38	0.169	-.1531528	.0268972
age	.0162203	.017468	0.93	0.354	-.0181397	.0505803
injselfr	.7179886	.4441889	1.62	0.107	-.1557435	1.591721
depagw1	-.0086636	.0088833	-0.98	0.330	-.0261373	.0088101
depagw2	.0178534	.0131454	1.36	0.175	-.0080041	.0437108
anxagw1	.0089	.0071706	1.24	0.215	-.0052049	.0230048
anxagw2	-.0139873	.010707	-1.31	0.192	-.0350482	.0070736
illw1	-.3838645	.391966	-0.98	0.328	-1.154873	.3871436

illw2	.4125503	.2213141	1.86	0.063	-.0227807	.8478813
illw3	.3505794	.1901534	1.84	0.066	-.0234578	.7246166
whpsleep	.0218883	.0070591	3.10	0.002	.0080028	.0357737
whpel	.0296724	.0064126	4.63	0.000	.0170586	.0422863
whppa	-.0048591	.0113	-0.43	0.667	-.0270865	.0173684
_cons	6.485928	.8742289	7.42	0.000	4.766296	8.205561

```
169 .
170 .
171 . // Obtaining individual r2 for H8
172 .
173 .
174 . /*
    > foreach var in whpsleep whpel whppa {
    > sw, pr(.05): regress `var' cumdose1 cumdose2 cumdose3 ///
    >     medcow1 medcow2 medcow3 crhrw1 crhrw2 crhrw3 fdferw1 ///
    >     age injselfr  BSIdep  BSIanx BSIposymp anxagw1 anxagw2  ///
    >      depagw1 depagw2 illw1 illw2 illw3 if gender==2
    >   cap predict rf`var', xb
    > }
    >
    > */
175 .
176 .
177 .
178 .
179 . * testing nowcasst weak rationality
180 .
181 . regress BSIposymp rmBSIposymp if gender==1
```

Source	SS	df	MS		
Model	110340.194	1	110340.194	Prob > F	= 0.0000
Residual	70257.3357	336	209.099213	R-squared	= 0.6110
Total	180597.53	337	535.897714	Adj R-squared	= 0.6098
				Root MSE	= 14.46

Number of obs = 338
F(1, 336) = 527.69

BSIposymp	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
rmBSIposymp	.9999457	.0435297	22.97	0.000	.9143206	1.085571
_cons	.0050995	3.35271	0.00	0.999	-6.589847	6.600046

```
182 . test _b[rmBSIposymp]==1

     ( 1)  rmBSIposymp = 1

           F(  1,   336) =    0.00
                Prob > F =    0.9990

183 . test _b[_cons]==0, accum

     ( 1)  rmBSIposymp = 1
     ( 2)  _cons = 0

           F(  2,   336) =    0.00
                Prob > F =    1.0000

184 .
185 . regress BSIanx rmBSIanx if gender==1

      Source |       SS       df       MS              Number of obs =     339
-------------+------------------------------           F(  1,   337) =  288.07
       Model |  1198.40192     1  1198.40192            Prob > F      =  0.0000
    Residual |  1401.97566   337  4.16016515            R-squared     =  0.4609
-------------+------------------------------           Adj R-squared =  0.4593
       Total |  2600.37758   338   7.6934248            Root MSE      =  2.0396

------------------------------------------------------------------------------
      BSIanx |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    rmBSIanx |    1.000946   .0589746    16.97   0.000     .8849415    1.116951
       _cons |   -.0162988    .462991    -0.04   0.972    -.9270151    .8944175
------------------------------------------------------------------------------

186 .
187 . test _b[rmBSIanx]==1

     ( 1)  rmBSIanx = 1

           F(  1,   337) =    0.00
                Prob > F =    0.9872
```

```
188 . test _b[_cons]==0, accum

     ( 1)  rmBSIanx = 1
     ( 2)  _cons = 0

           F(  2,   337) =    0.00
                Prob > F =    0.9965

189 .
190 . regress BSIdep rmBSIdep if gender==1

      Source |       SS       df       MS              Number of obs =     339
-------------+------------------------------           F(  1,   337) =  176.37
       Model |  955.763183     1  955.763183            Prob > F      =  0.0000
    Residual |  1826.27811   337  5.41922289           R-squared     =  0.3435
-------------+------------------------------           Adj R-squared =  0.3416
       Total |   2782.0413   338  8.23089141           Root MSE      =  2.3279

------------------------------------------------------------------------------
      BSIdep |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    rmBSIdep |   .9951869   .0749373    13.28   0.000     .8477831    1.142591
       _cons |   .0269087   .6224549     0.04   0.966    -1.197478    1.251295
------------------------------------------------------------------------------

191 . test _b[rmBSIdep]==1

     ( 1)  rmBSIdep = 1

           F(  1,   337) =    0.00
                Prob > F =    0.9488

192 . test _b[_cons]==0, accum

     ( 1)  rmBSIdep = 1
     ( 2)  _cons = 0

           F(  2,   337) =    0.01
                Prob > F =    0.9933
```

```
193 . /*
    >
    > regress BSIposymp rfBSIposymp if gender==2
    > test _b[rfBSIposymp]==1
    > test _b[_cons]==0, accum
    >
    > regress BSIanx rfBSIanx if gender==2
    > test _b[rfBSIanx]==1
    > test _b[_cons]==0, accum
    >
    >
    > regress BSIdep rfBSIdep if gender==2
    > test _b[rfBSIdep]==1
    > test _b[_cons]==0, accum
    > */
194 .
195 . regress whpsleep rmwhpsleep if gender==1, coeflegend

      Source |       SS       df       MS              Number of obs =     339
-------------+------------------------------           F(  1,   337) =  211.80
       Model |  80521.1472     1  80521.1472            Prob > F      =  0.0000
    Residual |   128117.16   337  380.169614            R-squared     =  0.3859
-------------+------------------------------           Adj R-squared =  0.3841
       Total |  208638.307   338  617.273098            Root MSE      =  19.498

------------------------------------------------------------------------------
    whpsleep |      Coef.  Legend
-------------+----------------------------------------------------------------
  rmwhpsleep |           1  _b[rmwhpsleep]
       _cons |   4.36e-08  _b[_cons]
------------------------------------------------------------------------------

196 . test _b[rmwhpsleep]==1

 ( 1)  rmwhpsleep = 1

       F(  1,   337) =    0.00
            Prob > F =    1.0000
```

```
197 . test _b[_cons]== 0, accum

     ( 1)  rmwhpsleep = 1
     ( 2)  _cons = 0

           F(  2,   337) =    0.00
                Prob > F =    1.0000

198 .
199 .
200 . regress whpel rmwhpel if gender==1
```

Source	SS	df	MS		
Model	86893.9347	1	86893.9347	Number of obs =	339
Residual	218046.182	337	647.021312	F(1, 337) =	134.30
				Prob > F =	0.0000
				R-squared =	0.2850
				Adj R-squared =	0.2828
Total	304940.117	338	902.189695	Root MSE =	25.437

whpel	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
rmwhpel	1	.0862908	11.59	0.000	.8302635	1.169736
_cons	-1.04e-07	2.431529	-0.00	1.000	-4.782886	4.782886

```
201 . test _b[rmwhpel]==1

     ( 1)  rmwhpel = 1

           F(  1,   337) =    0.00
                Prob > F =    1.0000

202 . test _b[_cons]==0, common

     ( 1)  _cons = 0

           F(  1,   337) =    0.00
                Prob > F =    1.0000
```

```
203 .
204 .
205 . regress whppa rmwhppa if gender==1
```

Source	SS	df	MS		
Model	**16197.7203**	**1**	**16197.7203**	Number of obs =	**339**
Residual	**55481.0989**	**337**	**164.632341**	F(1, 337) =	**98.39**
				Prob > F =	**0.0000**
				R-squared =	**0.2260**
				Adj R-squared =	**0.2237**
Total	**71678.8192**	**338**	**212.067512**	Root MSE =	**12.831**

whppa	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
rmwhppa	**1**	**.1008163**	**9.92**	**0.000**	**.8016915**	**1.198308**
_cons	**5.35e-08**	**1.185485**	**0.00**	**1.000**	**-2.331882**	**2.331883**

```
206 . test _b[rmwhppa]==1

 ( 1)  rmwhppa = 1

       F(  1,   337) =    0.00
            Prob > F =    1.0000

207 . test _b[_cons]==0, accum

 ( 1)  rmwhppa = 1
 ( 2)  _cons = 0

       F(  2,   337) =    0.00
            Prob > F =    1.0000

208 .
209 . /*
    > regress whpsleep rfwhpsleep if gender==2
    > test _b[rfwhpsleep]==1
    > test _b[_cons]==0, accum
    >
    >
    > regress whpel rfwhpel if gender==2
    > test _b[rfwhpel]==1
    > test _b[_cons]==0, accum
    >
    > regress whppa rfwhppa if gender==2
    > test _b[rfwhppa]==1
    > test _b[_cons]==0, accum
    > */
```