```
 1 . ** version 1 continued
 2 . * note: estout.ado required
 3 .
 4 . twoway scatter WHPpain avgcumdosew1 if gender==2 ///
   >  || lowess WHPpain avgcumdosew1 if gender==2, ///
   >    ti(Pain & avg cumulative reconstructed {superscript:137}CS dose) ///
   >    subti(among females in wave one) ///
   >    xti(average cumulative dose for wave one in milliGrays) ///
   >    yti(Pain subscale score)  ///
   >    legend(rows(2))

 5 . graph save fPainvD1.gph, replace
   (file fPainvD1.gph saved)

 6 . graph export fPainvD1.eps, replace
   (file fPainvD1.eps written in EPS format)

 7 .
 8 .
 9 .
10 . twoway scatter WHPpain avgcumdosew2 if gender==2 ||

11 .     lowess WHPpain avgcumdosew2 if gender==2, ///
   >    ti(Pain & avg cumulative reconstructed {superscript:137}CS dose) ///
   >    subti(among females in wave two) ///
   >    xti(average cumulative dose for wave one in milliGrays) ///
   >    yti(Pain subscale score) ///
   >    legend(rows(2))

12 . graph save fPainvD2.gph, replace
   (file fPainvD2.gph saved)

13 . graph export fPainvD2.eps, replace
   (file fPainvD2.eps written in EPS format)

14 .
15 . twoway scatter WHPpain avgcumdosew3 if gender==2 ///
   >    || lowess WHPpain avgcumdosew3 if gender==2, ///
   >    ti(Pain & avg cumulative reconstructed {superscript:137}CS dose) ///
   >    subti(among females in wave three) ///
   >    xti(average cumulative dose for wave one in milliGrays) ///
   >    yti(Pain subscale score)  ///
   >     legend(rows(2))
```

```
16 . graph save fPainVD3.gph, replace
   (file fPainVD3.gph saved)

17 . graph export fPainVD3.eps, replace
   (file fPainVD3.eps written in EPS format)

18 .
19 .
20 .
21 .
22 .
23 .
24 .
25 .
26 .
27 . //  wave 1 possible socio-demog covariates full Female model
28 . regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1 ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 avgcumdosew1 if gender==2, vce
   > (cluster id)

Linear regression                               Number of obs =     361
                                                F( 28,   360) =       .
                                                Prob > F      =       .
                                                R-squared     =  0.2824
                                                Root MSE      =  19.789

                                   (Std. Err. adjusted for 361 clusters in id)
------------------------------------------------------------------------------
             |               Robust
     WHPpain |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |    .537444   .1633407     3.29   0.001     .2162222    .8586657
       educ2 |   21.92515   7.073807     3.10   0.002      8.01398    35.83633
       educ3 |   15.09003   5.736685     2.63   0.009     3.808409    26.37166
       educ4 |   13.99178   7.881628     1.78   0.077    -1.508036     29.4916
       educ5 |    5.90552   5.804876     1.02   0.310    -5.510207    17.32125
       educ6 |   4.595254   5.590093     0.82   0.412    -6.398087    15.58859
       educ7 |  -3.585818   8.563064    -0.42   0.676    -20.42573    13.25409
     marrw11 |  -8.918784   6.847712    -1.30   0.194    -22.38533    4.547758
     marrw12 |  -1.958642   14.25906    -0.14   0.891    -30.00015    26.08287
     marrw13 |  -11.65534   7.345918    -1.59   0.113    -26.10164    2.790961
     marrw15 |  -18.26463   10.45948    -1.75   0.082    -38.83399    2.304732
     childw1 |   2.123843   2.085884     1.02   0.309    -1.978206    6.225891
     emplw12 |   4.296345   5.928944     0.72   0.469     -7.36337    15.95606
     emplw13 |  -3.283768   5.903416    -0.56   0.578    -14.89328    8.325745
     emplw14 |   2.304267   5.586697     0.41   0.680    -8.682395    13.29093
     emplw15 |  -4.537654   14.64111    -0.31   0.757    -33.33051     24.2552
     emplw16 |    4.29979   6.111974     0.70   0.482    -7.719868    16.31945
      occ1w1 |   15.71086   12.64648     1.24   0.215    -9.159399    40.58112
```

occ2w1	21.05361	13.08106	1.61	0.108	-4.67129	46.7785
occ3w1	20.43142	13.1903	1.55	0.122	-5.5083	46.37115
occ4w1	16.80658	13.15824	1.28	0.202	-9.070091	42.68326
occ5w1	22.07369	14.6111	1.51	0.132	-6.660136	50.80752
occ6w1	10.35101	14.40774	0.72	0.473	-17.98289	38.68491
occ7w1	20.00342	16.14399	1.24	0.216	-11.74496	51.7518
occ8w1	18.30226	12.34146	1.48	0.139	-5.968158	42.57268
inc1w1	-12.08317	12.15085	-0.99	0.321	-35.97874	11.8124
inc2w1	-14.70769	12.00904	-1.22	0.221	-38.32438	8.908999
inc3w1	-11.05238	12.48713	-0.89	0.377	-35.60926	13.5045
inc4w1	-9.922959	13.46885	-0.74	0.462	-36.41047	16.56455
avgcumdosew1	4.981513	2.613482	1.91	0.057	-.1580964	10.12112
_cons	-20.7401	11.78019	-1.76	0.079	-43.90672	2.426528

```
29 .
30 .  // average cum dose is not a significant main effect in full model
31 .
32 . local hyp = 1

33 . local pt = 1

34 . local wv = 1

35 .
36 . scalar hyp=1

37 . scalar pt=1

38 . scalar wv =1

39 . scalar dsigfw1 = 0

40 .
41 . // we do not count constant as a main effect
42 . matrix define H1p1FPnDosew1 = J(1,12,0)
```

```
43 . matrix  colnames H1p1FPnDosew1 = hypnum ptnum wv dsigfw1 dsigtw1 numMainEffs
   > igFw1 numMainEffsigTw1 numModFw1 numModTw1 numbfsigfw1 numbfsigtw1 numMedw1

44 . matrix  rownames H1p1FPnDosew1 = wave1

45 . matlist H1p1FPnDosew1

             |    hypnum      ptnum          wv    dsigfw1    dsigtw1  numMain~
   > 1  numMain~1  numModFw1  numModTw1  numbfsi~1  numbfsi~1
-------------+-------------------------------------------------------------------
   > ---------------------------------------------------------
       wave1 |          0          0          0          0          0
   > 0          0          0          0          0          0

             |  numMedw1
-------------+-----------
       wave1 |          0

46 .
47 .
48 . set more off

49 . des WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1 ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
   >   radtlw1 havmil bfffpain2-bfffpain34

              storage  display     value
   variable name   type   format      label      variable label
   ------------------------------------------------------------------------------
   WHPpain         double %9.0g                  Wtd Health Profile Pain Pt 1
                                                   subscale
   age             byte   %8.0g                * Respondent's age
   educ2           byte   %8.0g                  educ==2. graduated high school
   educ3           byte   %8.0g                  educ==3. technical degree
   educ4           byte   %8.0g                  educ==4. did not finish
                                                   college/bachelor's
   educ5           byte   %8.0g                  educ==5. graduated
                                                   college/bachelor's
   educ6           byte   %8.0g                  educ==6. finished
                                                   specialist/master's degree
   educ7           byte   %8.0g                  educ==7. doctor of science/phd
   marrw11         byte   %8.0g                  marrw1==1. single
   marrw12         byte   %8.0g                  marrw1==2. cohabitating
   marrw13         byte   %8.0g                  marrw1==3. married
   marrw15         byte   %8.0g                  marrw1==5. divorced
   childw1         byte   %8.0g                  number of children in 1986
   emplw12         byte   %8.0g                  emplw1==1. full time
   emplw13         byte   %8.0g                  emplw1==2. part time
   emplw14         byte   %8.0g                  emplw1==3. voluntary
```

emplw15	byte	%8.0g		**emplw1==4. retired**
emplw16	byte	%8.0g		**emplw1==5. unemployed**
occ1w1	byte	%15.0g	LABJ	**profess executive administration in 1986**
occ2w1	byte	%15.0g	LABJ	**technical sales admin support in 1986**
occ3w1	byte	%15.0g	LABJ	**service occup protective services in 1986**
occ4w1	byte	%15.0g	LABJ	**precision prod mechan craft construction in 1986**
occ5w1	byte	%15.0g	LABJ	**factory laborer machinist transp cleaner in 1986**
occ6w1	byte	%15.0g	LABJ	**farming agricul forestry fishing trapping logging in 1986**
occ7w1	byte	%15.0g	LABJ	**homemaking or caregiving in 1986**
occ8w1	byte	%15.0g	LABJ	**student in 1986**
inc1w1	byte	%15.0g	LABJ	**Income is not sufficient for basic neccessities in 1986**
inc2w1	byte	%15.0g	LABJ	**Income is just sufficient for basic neccessities in 1986**
inc3w1	byte	%15.0g	LABJ	**Income is sufficient for basics plus extra purchases/savings in 1986**
inc4w1	byte	%15.0g	LABJ	**Income allows to comfortably afford luxury items in 1986**
radhlw1	byte	%8.0g		**Self-perceived Chornobyl health threat in wave 1**
radchw1	byte	%8.0g		**believed % of polution related to chornobyl in 1986**
radtlw1	byte	%8.0g		**believed % of cumulative radiation exposed to in a lifetime in 1986**
havmil	double	%9.0g		**Distance from Chornobyl in miles**
bfffpain2	byte	%9.0g		**max(0, 23 - BSIsoma)**
bfffpain3	float	%9.0g		**max(0, hospw3 - 1.57823e-007)**
bfffpain4	float	%9.0g		**max(0, occ3w2 + 2.13147e-009)**
bfffpain5	byte	%9.0g		**max(0, shhlw1 -30)**
bfffpain6	byte	%9.0g		**max(0, 30-shhlw1)**
bfffpain7	byte	%9.0g		**max(0, inc1w3 - 7.3627e-009) * bfffpain5**
bfffpain8	byte	%9.0g		**max(0, BSIsoma - 13)**
bfffpain9	byte	%9.0g		**max(0, 13-BSIsoma)**
bfffpain11	int	%9.0g		**max(0, 80- radw2)*bfffpain8 female pain series**
bfffpain12	float	%9.0g		**max(0, physdisagw3 - 10) * bfffpain9**
bfffpain13	float	%9.0g		**max(0, 10 - physdisagw3) * bfffpain9**
bfffpain14	float	%9.0g		**max(0, havmil - 112.275) ***

```
                                                  bfffpain11
   bfffpain15      float  %9.0g                  max(0, 112.275 - havmil) *
                                                  bfffpain11
   bfffpain16      float  %9.0g                  max(0, painmedspw3 -
                                                  4.33161e-008) * bfffpain3
   bfffpain17      float  %9.0g                 max(0, defnw2 - 90)* bfffpain4
   bfffpain19      float  %9.0g                  (CSprbslv != . ) * bfffpain15
   bfffpain21      float  %9.0g                 max(0, CSprbslv - 29) *
                                                  bfffpain19
   bfffpain22      float  %9.0g                 max(0, 29-CSprbslv)*bfffpain19
   bfffpain23      float  %9.0g                 max(0, shrelaw1 - 10)*bfffpain16
   bfffpain24      float  %9.0g                 max(0, 10-shrelaw1)*bfffpain16
   bfffpain25      float  %9.0g                 max(0, suchrw2 - 2.24572e-006) *
                                                  bfffpain23
   bfffpain26      float  %9.0g                 max(0, neiw3 - 80) * bfffpain24
   bfffpain27      float  %9.0g                 max((0, 80 - neiw3) * bfffpain24
                                                  )
   bfffpain28      float  %9.0g                 max(0, age - 28)*bfffpain22
   bfffpain29      float  %9.0g                 (medcow3 != .)* bfffpain4
   bfffpain32      float  %9.0g                 max(0, 3- medcow3) * bfffpain29
   bfffpain33      float  %9.0g                  max(0, PTSDw3 + 3.81914e-008) *
                                                  bfffpain32
   bfffpain34      float  %9.0g                  max(0, occ4w3 - 9.59584e-010) *
                                                  bfffpain3

50 .
51 . set more off

52 . regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1 ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
   >   radtlw1 havmil bfffpain2 bfffpain5 bfffpain8 bfffpain9 bfffpain19 ///
   >   bfffpain23 bfffpain24 bfffpain34 avgcumdosew1 if gender==2, vce(cluster id
   > )

   Linear regression                               Number of obs =     360
                                                   F( 40,   359) =       .
                                                   Prob > F      =       .
                                                   R-squared     =  0.5401
                                                   Root MSE      =  16.149
```

(Std. Err. adjusted for **360** clusters in id)

WHPpain	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2539292	.1509908	1.68	0.093	-.0430083	.5508667
educ2	19.67227	5.96572	3.30	0.001	7.940124	31.40442
educ3	14.71946	5.285104	2.79	0.006	4.325811	25.11312
educ4	16.58651	6.893866	2.41	0.017	3.029076	30.14395
educ5	10.2256	5.23379	1.95	0.052	-.067142	20.51834
educ6	9.323789	5.187485	1.80	0.073	-.8778881	19.52547
educ7	-.0287014	8.297594	-0.00	0.997	-16.3467	16.2893
marrw11	-2.381092	5.037066	-0.47	0.637	-12.28695	7.524771
marrw12	2.337756	12.48467	0.19	0.852	-22.21453	26.89004
marrw13	-6.931572	5.460167	-1.27	0.205	-17.6695	3.806361
marrw15	-14.49278	7.076702	-2.05	0.041	-28.40978	-.5757781
childw1	1.59913	1.791435	0.89	0.373	-1.923896	5.122155
emplw12	-1.809486	4.871335	-0.37	0.711	-11.38942	7.770451
emplw13	-8.902873	4.989581	-1.78	0.075	-18.71535	.9096072
emplw14	-5.521865	5.490343	-1.01	0.315	-16.31914	5.27541
emplw15	.5065772	10.27843	0.05	0.961	-19.70691	20.72007
emplw16	-3.015676	5.08059	-0.59	0.553	-13.00713	6.975782
occ1w1	8.045109	12.15217	0.66	0.508	-15.85327	31.94348
occ2w1	12.90945	12.5173	1.03	0.303	-11.70698	37.52589
occ3w1	14.78797	12.55803	1.18	0.240	-9.908569	39.48452
occ4w1	7.488842	12.95096	0.58	0.563	-17.98043	32.95811
occ5w1	7.703611	12.9526	0.59	0.552	-17.76889	33.17611
occ6w1	9.520528	13.27121	0.72	0.474	-16.57856	35.61961
occ7w1	12.75732	14.04248	0.91	0.364	-14.85854	40.37317
occ8w1	11.22932	12.26186	0.92	0.360	-12.88479	35.34343
inc1w1	-4.743502	11.41398	-0.42	0.678	-27.19016	17.70316
inc2w1	-5.214478	11.4206	-0.46	0.648	-27.67417	17.24521
inc3w1	-2.34582	11.77112	-0.20	0.842	-25.49484	20.8032
inc4w1	-.6139275	12.4463	-0.05	0.961	-25.09074	23.86289
radhlw1	-.0098396	.0305349	-0.32	0.747	-.0698893	.0502102
radchw1	.0014346	.0296976	0.05	0.961	-.0569685	.0598378
radtlw1	.0027195	.0299331	0.09	0.928	-.0561469	.0615858
havmil	.0022644	.0019723	1.15	0.252	-.0016143	.006143
bfffpain2	-2.345164	1.2533	-1.87	0.062	-4.809897	.1195685
bfffpain5	.0162578	.0406429	0.40	0.689	-.0636703	.0961859
bfffpain8	.7175689	1.106425	0.65	0.517	-1.458319	2.893457
bfffpain9	1.457033	1.396617	1.04	0.298	-1.289545	4.203612
bfffpain19	-.0000122	.0000849	-0.14	0.886	-.0001791	.0001547
bfffpain23	.0004803	.0003397	1.41	0.158	-.0001877	.0011483
bfffpain24	.0024684	.002253	1.10	0.274	-.0019624	.0068992
bfffpain34	3.187072	.3177693	10.03	0.000	2.562149	3.811995
avgcumdosew1	2.899549	2.159226	1.34	0.180	-1.346772	7.14587
_cons	8.965248	17.20189	0.52	0.603	-24.86388	42.79438

```
53 .
54 .  scalar fw1 = e(r2_a)

55 .  scalar list fw1
         fw1 =  .47914642

56 .  scalar dsigfw1 = 0

57 .  scalar numMainEffsigFw1=5

58 .  scalar numbfsigfw1 = 1

59 .
60 .
61 . // results show bfffpain34 is significant but that is all: rescaled occ4w3
   > &
62 . // interacting with hospw3 rescaled.
63 .
64 . // wave 1 trimmed model of possible socio-demog covariates Female model
65 . set more off

66 . sw, pr(.1) :  regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw
   > 1 ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 avgcumdosew1 if gender==2
                        begin with full model
   p = 0.9140 >= 0.1000  removing emplw14
   p = 0.8848 >= 0.1000  removing educ7
   p = 0.8730 >= 0.1000  removing marrw12
   p = 0.7098 >= 0.1000  removing emplw15
   p = 0.7636 >= 0.1000  removing emplw13
   p = 0.5549 >= 0.1000  removing educ6
   p = 0.7183 >= 0.1000  removing educ5
   p = 0.3532 >= 0.1000  removing occ6w1
   p = 0.5283 >= 0.1000  removing inc4w1
   p = 0.4126 >= 0.1000  removing inc3w1
   p = 0.5572 >= 0.1000  removing inc1w1
   p = 0.2735 >= 0.1000  removing occ4w1
   p = 0.3018 >= 0.1000  removing occ1w1
   p = 0.3072 >= 0.1000  removing occ8w1
   p = 0.3619 >= 0.1000  removing marrw11
   p = 0.2638 >= 0.1000  removing occ5w1
   p = 0.2042 >= 0.1000  removing childw1
   p = 0.1960 >= 0.1000  removing occ3w1
   p = 0.2483 >= 0.1000  removing inc2w1
   p = 0.2383 >= 0.1000  removing marrw13
   p = 0.3028 >= 0.1000  removing marrw15
   p = 0.2602 >= 0.1000  removing occ2w1
   p = 0.2615 >= 0.1000  removing occ7w1
```

```
p = 0.1226 >= 0.1000  removing emplw12
p = 0.3737 >= 0.1000  removing emplw16
```

Source	SS	df	MS		
Model	42674.0832	5	8534.81665	Number of obs =	361
Residual	137400.259	355	387.042984	F(5, 355) =	22.05
				Prob > F =	0.0000
Total	180074.343	360	500.206507	R-squared =	0.2370
				Adj R-squared =	0.2262
				Root MSE =	19.673

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.5643203	.0933787	6.04	0.000	.3806754	.7479653
educ2	17.67312	4.411403	4.01	0.000	8.997352	26.34889
educ3	10.93506	2.279952	4.80	0.000	6.451149	15.41897
educ4	10.14956	4.276936	2.37	0.018	1.738239	18.56087
avgcumdosew1	4.793874	1.919043	2.50	0.013	1.019751	8.567997
_cons	-17.7037	4.670141	-3.79	0.000	-26.88832	-8.519082

```
67 . set more off

68 . sw,  pr(.1): regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1
   >  ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
   >   radtlw1 illw1 havmil avgcumdosew1 if gender==2
                        begin with full model
   p = 0.9467 >= 0.1000  removing havmil
   p = 0.8751 >= 0.1000  removing radchw1
   p = 0.8416 >= 0.1000  removing educ6
   p = 0.8039 >= 0.1000  removing emplw13
   p = 0.8502 >= 0.1000  removing emplw15
   p = 0.8307 >= 0.1000  removing educ5
   p = 0.6593 >= 0.1000  removing emplw14
   p = 0.6622 >= 0.1000  removing marrw12
   p = 0.5192 >= 0.1000  removing occ6w1
   p = 0.5881 >= 0.1000  removing inc4w1
   p = 0.5195 >= 0.1000  removing educ7
   p = 0.3541 >= 0.1000  removing inc3w1
   p = 0.5554 >= 0.1000  removing inc1w1
   p = 0.3405 >= 0.1000  removing occ4w1
   p = 0.4073 >= 0.1000  removing occ1w1
   p = 0.3745 >= 0.1000  removing inc2w1
   p = 0.4337 >= 0.1000  removing occ8w1
   p = 0.4071 >= 0.1000  removing occ5w1
   p = 0.2811 >= 0.1000  removing occ3w1
   p = 0.2763 >= 0.1000  removing occ7w1
   p = 0.2346 >= 0.1000  removing childw1
```

```
p = 0.2577 >= 0.1000  removing occ2w1
p = 0.1948 >= 0.1000  removing radhlw1
p = 0.1141 >= 0.1000  removing marrw15
p = 0.2112 >= 0.1000  removing marrw11
p = 0.3964 >= 0.1000  removing marrw13
p = 0.1643 >= 0.1000  removing emplw12
p = 0.5246 >= 0.1000  removing emplw16
```

Source	SS	df	MS		
Model	45428.8644	7	6489.83777	Number of obs =	360
Residual	134317.672	352	381.584295	F(7, 352) =	17.01
				Prob > F =	0.0000
				R-squared =	0.2527
				Adj R-squared =	0.2379
Total	179746.536	359	500.68673	Root MSE =	19.534

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.5733578	.0951252	6.03	0.000	.3862725	.7604431
educ2	16.18213	4.418437	3.66	0.000	7.492275	24.87199
educ3	9.817798	2.312627	4.25	0.000	5.269493	14.3661
educ4	11.79404	4.290606	2.75	0.006	3.355592	20.23249
avgcumdosew1	4.678416	1.907184	2.45	0.015	.9275078	8.429323
illw1	3.849899	2.12582	1.81	0.071	-.3310069	8.030805
radtlw1	-.0560035	.0280126	-2.00	0.046	-.1110965	-.0009105
_cons	-14.94226	4.77508	-3.13	0.002	-24.33353	-5.550984

```
69 . ************************************************************************
   > ****
70 . // it is possible with some forms of trimming to have a significant dose eff
   > ect
71 . // in the wave 1 female trimmed model
72 . **********   now we try it with basis functions included ******************
   > ****
73 . set more off
```

```
74 . sw, pr(.1): regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1
   > ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
   >   radtlw1 havmil bfffpain2 bfffpain5 bfffpain8 bfffpain9 ///
   >   avgcumdosew1 if gender==2, vce(cluster id)
                        begin with full model
   p = 0.9845 >= 0.1000  removing inc4w1
   p = 0.9734 >= 0.1000  removing marrw12
   p = 0.9712 >= 0.1000  removing educ7
   p = 0.9007 >= 0.1000  removing radtlw1
   p = 0.8146 >= 0.1000  removing emplw15
   p = 0.8958 >= 0.1000  removing emplw12
   p = 0.7486 >= 0.1000  removing radchw1
   p = 0.6968 >= 0.1000  removing bfffpain5
   p = 0.7121 >= 0.1000  removing radhlw1
   p = 0.6316 >= 0.1000  removing inc3w1
   p = 0.5047 >= 0.1000  removing bfffpain8
   p = 0.5038 >= 0.1000  removing emplw16
   p = 0.3463 >= 0.1000  removing marrw11
   p = 0.3067 >= 0.1000  removing childw1
   p = 0.2532 >= 0.1000  removing avgcumdosew1
   p = 0.2917 >= 0.1000  removing havmil
   p = 0.1868 >= 0.1000  removing occ4w1
   p = 0.2073 >= 0.1000  removing occ5w1
   p = 0.2273 >= 0.1000  removing inc2w1
   p = 0.4121 >= 0.1000  removing inc1w1
   p = 0.1543 >= 0.1000  removing occ6w1
   p = 0.1730 >= 0.1000  removing occ1w1
   p = 0.1601 >= 0.1000  removing marrw13
   p = 0.1315 >= 0.1000  removing occ3w1
   p = 0.1667 >= 0.1000  removing occ2w1
   p = 0.2100 >= 0.1000  removing occ7w1

   Linear regression                               Number of obs =     360
                                                   F( 11,   359) =       .
                                                   Prob > F      =       .
                                                   R-squared     =  0.4846
                                                   Root MSE      =   16.34
```

(Std. Err. adjusted for **360** clusters in id)

WHPpain	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	**.3218759**	**.1083374**	**2.97**	**0.003**	**.1088201**	**.5349316**
educ2	**24.96154**	**5.974077**	**4.18**	**0.000**	**13.21296**	**36.71013**
educ3	**18.49262**	**5.216093**	**3.55**	**0.000**	**8.234683**	**28.75056**
educ4	**19.81959**	**6.579144**	**3.01**	**0.003**	**6.881089**	**32.7581**
educ5	**13.82823**	**5.356203**	**2.58**	**0.010**	**3.294758**	**24.36171**
educ6	**12.31836**	**5.297531**	**2.33**	**0.021**	**1.900265**	**22.73645**
emplw14	**-3.490956**	**1.440374**	**-2.42**	**0.016**	**-6.323587**	**-.6583243**
emplw13	**-5.891912**	**1.905987**	**-3.09**	**0.002**	**-9.640215**	**-2.14361**
bfffpain9	**2.273892**	**.6768116**	**3.36**	**0.001**	**.9428781**	**3.604905**
bfffpain2	**-3.255091**	**.3813522**	**-8.54**	**0.000**	**-4.005056**	**-2.505126**
marrw15	**-9.892398**	**4.678304**	**-2.11**	**0.035**	**-19.09272**	**-.6920744**
occ8w1	**3.784473**	**2.237679**	**1.69**	**0.092**	**-.6161338**	**8.18508**
_cons	**11.93885**	**9.352251**	**1.28**	**0.203**	**-6.453227**	**30.33093**

```
75 .
76 .   // only 2 basis functions (bfffpain9 and bfffpain2)remain significant but
77 .   // avgcumdosew1 dose does not.  Both of those are rescaled BSIsoma variabl
   > es.
78 .
79 .
80 . scalar tw1bf = e(r2_a)

81 . scalar list tw1bf
        tw1bf =  .46676249

82 . scalar NumMainEffsigTw1= 11

83 . scalar numbfsigtw1 = 2

84 . scalar dsigtw1 = 3
```

```
85 .
86 . scalar w1numbf = 4

87 .
88 . // borderline significance of avgcumdosew1
89 . set more off

90 . sw, pr(.1): regress WHPpain age educ2-educ7 marrw11-marrw13 marrw15 childw1
   > ///
   >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
   >   radtlw1 havmil avgcumdosew1 if gender==2, vce(cluster id)
                        begin with full model
   p = 0.8905 >= 0.1000  removing havmil
   p = 0.8690 >= 0.1000  removing radchw1
   p = 0.8062 >= 0.1000  removing marrw12
   p = 0.7570 >= 0.1000  removing emplw15
   p = 0.8054 >= 0.1000  removing emplw13
   p = 0.4948 >= 0.1000  removing occ6w1
   p = 0.6298 >= 0.1000  removing inc4w1
   p = 0.6289 >= 0.1000  removing inc3w1
   p = 0.5030 >= 0.1000  removing inc1w1
   p = 0.4345 >= 0.1000  removing educ6
   p = 0.7216 >= 0.1000  removing educ5
   p = 0.2774 >= 0.1000  removing occ4w1
   p = 0.3550 >= 0.1000  removing occ1w1
   p = 0.4077 >= 0.1000  removing occ5w1
   p = 0.4190 >= 0.1000  removing occ7w1
   p = 0.5252 >= 0.1000  removing occ8w1
   p = 0.4032 >= 0.1000  removing inc2w1
   p = 0.4593 >= 0.1000  removing occ3w1
   p = 0.3084 >= 0.1000  removing childw1
   p = 0.2351 >= 0.1000  removing occ2w1
   p = 0.2148 >= 0.1000  removing radhlw1
   p = 0.1024 >= 0.1000  removing marrw11
   p = 0.4010 >= 0.1000  removing marrw13
   p = 0.3815 >= 0.1000  removing marrw15
   p = 0.1101 >= 0.1000  removing emplw12
   p = 0.6795 >= 0.1000  removing emplw14
   p = 0.5160 >= 0.1000  removing emplw16

   Linear regression                               Number of obs =     360
                                                   F(  7,   359) =   15.82
                                                   Prob > F      =  0.0000
                                                   R-squared     =  0.2469
                                                   Root MSE      =   19.61
```

(Std. Err. adjusted for **360** clusters in id)

WHPpain	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	**.5993565**	**.0955932**	**6.27**	**0.000**	**.4113636**	**.7873494**
educ2	**16.55084**	**5.041294**	**3.28**	**0.001**	**6.636666**	**26.46502**
educ3	**10.14756**	**2.340312**	**4.34**	**0.000**	**5.545119**	**14.75**
educ4	**11.24671**	**5.565892**	**2.02**	**0.044**	**.3008578**	**22.19256**
avgcumdosew1	**4.809118**	**2.44168**	**1.97**	**0.050**	**.0073255**	**9.61091**
radtlw1	**-.0602172**	**.0271296**	**-2.22**	**0.027**	**-.11357**	**-.0068643**
educ7	**-10.18689**	**4.61687**	**-2.21**	**0.028**	**-19.2664**	**-1.107385**
_cons	**-15.38974**	**4.675674**	**-3.29**	**0.001**	**-24.58489**	**-6.194583**

```
91 .
92 . xi:regress WHPpain age i.educ radtlw1
i.educ            _IeducB1-8          (naturally coded; _IeducB1 omitted)
```

Source	SS	df	MS		
Model	**49684.3705**	**9**	**5520.48561**	Number of obs =	**702**
Residual	**233077.686**	**692**	**336.817465**	F(9, 692) =	**16.39**
				Prob > F =	**0.0000**
Total	**282762.056**	**701**	**403.369553**	R-squared =	**0.1757**
				Adj R-squared =	**0.1650**
				Root MSE =	**18.353**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	**.5303766**	**.0603324**	**8.79**	**0.000**	**.4119201**	**.6488331**
_IeducB2	**17.21877**	**18.63053**	**0.92**	**0.356**	**-19.36038**	**53.79792**
_IeducB3	**12.2502**	**18.44621**	**0.66**	**0.507**	**-23.96705**	**48.46744**
_IeducB4	**13.54639**	**18.63326**	**0.73**	**0.467**	**-23.03812**	**50.13091**
_IeducB5	**6.348003**	**18.50162**	**0.34**	**0.732**	**-29.97804**	**42.67404**
_IeducB6	**4.210683**	**18.44925**	**0.23**	**0.820**	**-32.01254**	**40.43391**
_IeducB7	**-5.520646**	**19.86377**	**-0.28**	**0.781**	**-44.52113**	**33.47983**
_IeducB8	**-11.73288**	**22.50573**	**-0.52**	**0.602**	**-55.92059**	**32.45483**
radtlw1	**-.0044961**	**.0188427**	**-0.24**	**0.811**	**-.0414919**	**.0324997**
_cons	**-20.17713**	**18.88516**	**-1.07**	**0.286**	**-57.25622**	**16.90196**

```
 93 . matrix define x= e(b)

 94 . local cn1 :colnames(x)

 95 . di "`cn1'"
    age _IeducB2 _IeducB3 _IeducB4 _IeducB5 _IeducB6 _IeducB7 _IeducB8 radtlw1 _co
    > ns

 96 . local lcn1=length("`cn1'")

 97 . di `lcn1'
    80

 98 . local lcn2 = `lcn1'-6

 99 . di `lcn2'
    74

100 . local nuvlist = substr("`cn1'",1,74)

101 . di "`nuvlist'"
    age _IeducB2 _IeducB3 _IeducB4 _IeducB5 _IeducB6 _IeducB7 _IeducB8 radtlw1

102 .
103 .
104 . forvalues i=1/8{
      2. cap drop _Ieduc_`i'
      3. cap drop ageX_Ieduc_`i'
      4. cap drop radtlw1X_Ieduc_`i'
      5. cap drop radtlw1Xeduc`i'
      6. }

105 .
106 .
107 . forvalues i=1/8 {
      2. cap gen ageXeduc`i' = age*educ`i'
      3. cap gen radtlw1Xeduc`i' = radtlw1*educ`i'
      4. }
```

```
108 .
109 . forvalues i=1/8 {
      2. cap gen ageXd1 = age*avgcumdosew1
      3. cap gen educ`i'Xd1 = educ`i'*avgcumdosew1
      4. }

110 .
111 .
112 . regress WHPpain age  educ1-educ7 radtlw1  ///
    >  if gender==2
    note: educ7 omitted because of collinearity
```

Source	SS	df	MS		
Model	42415.1809	8	5301.89761	Number of obs =	363
Residual	138031.683	354	389.920008	F(8, 354) =	13.60
				Prob > F =	0.0000
				R-squared =	0.2351
				Adj R-squared =	0.2178
Total	180446.864	362	498.471999	Root MSE =	19.746

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.6433721	.0935215	6.88	0.000	.4594444	.8272997
educ1	3.950414	24.23646	0.16	0.871	-43.71514	51.61597
educ2	27.02711	14.49175	1.86	0.063	-1.47364	55.52785
educ3	20.66279	14.10116	1.47	0.144	-7.069783	48.39537
educ4	21.61943	14.60632	1.48	0.140	-7.106644	50.34551
educ5	12.35441	14.30308	0.86	0.388	-15.77528	40.48411
educ6	10.02727	14.13324	0.71	0.478	-17.7684	37.82294
educ7	0	(omitted)				
radtlw1	-.0609164	.0280487	-2.17	0.031	-.1160795	-.0057534
_cons	-26.50819	15.05345	-1.76	0.079	-56.11362	3.09725

```
113 .
114 . regress WHPpain age  educ1-educ7 radtlw1  ///
    >   ageXeduc1-ageXeduc7 if gender==2
    note: educ1 omitted because of collinearity
    note: educ2 omitted because of collinearity
```

Source	SS	df	MS		
Model	43189.8059	13	3322.29276	Number of obs =	363
Residual	137257.058	349	393.286698	F(13, 349) =	8.45
				Prob > F =	0.0000
				R-squared =	0.2393
				Adj R-squared =	0.2110
Total	180446.864	362	498.471999	Root MSE =	19.831

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.5047644	.1500047	3.36	0.001	.2097375	.7997914
educ1	0	(omitted)				
educ2	0	(omitted)				
educ3	5.285777	20.89267	0.25	0.800	-35.80561	46.37716
educ4	7.552456	26.12275	0.29	0.773	-43.82537	58.93028
educ5	-3.21443	23.84724	-0.13	0.893	-50.11681	43.68795
educ6	4.465011	20.33675	0.22	0.826	-35.533	44.46303
educ7	30.50288	92.99311	0.33	0.743	-152.3945	213.4003
radtlw1	-.059379	.028742	-2.07	0.040	-.1159083	-.0028497
ageXeduc1	.023336	.4143541	0.06	0.955	-.7916092	.8382812
ageXeduc2	.3818086	.3378843	1.13	0.259	-.282737	1.046354
ageXeduc3	.2035836	.2208106	0.92	0.357	-.2307032	.6378705
ageXeduc4	.1770986	.3759467	0.47	0.638	-.5623075	.9165046
ageXeduc5	.2084794	.3165283	0.66	0.511	-.4140636	.8310224
ageXeduc7	-.5648752	1.49068	-0.38	0.705	-3.496722	2.366972
_cons	-14.52723	19.18843	-0.76	0.450	-52.26675	23.21228

```
115 .
116 . regress WHPpain age  marrw11-marrw13 marrw15 childw1 ///
    >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
    >   radtlw1 havmil educ2-educ7   ///
    >    ageXd1 educ1Xd1-educ8Xd1 avgcumdosew1 if gender==2
    note: educ1Xd1 omitted because of collinearity
    note: educ4Xd1 omitted because of collinearity
    note: educ8Xd1 omitted because of collinearity
```

Source	SS	df	MS		
Model	53039.1297	40	1325.97824	Number of obs =	360
Residual	126707.406	319	397.201901	F(40, 319) =	3.34
				Prob > F =	0.0000
				R-squared =	0.2951
				Adj R-squared =	0.2067
Total	179746.536	359	500.68673	Root MSE =	19.93

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.4944551	.1924006	2.57	0.011	.1159207	.8729896
marrw11	-9.365407	7.242927	-1.29	0.197	-23.61535	4.884534
marrw12	-3.159165	12.13797	-0.26	0.795	-27.03975	20.72142
marrw13	-12.3376	6.726465	-1.83	0.068	-25.57144	.8962369
marrw15	-19.52835	11.17204	-1.75	0.081	-41.50853	2.451834
childw1	2.023848	1.837728	1.10	0.272	-1.591749	5.639446
emplw12	5.696465	8.567681	0.66	0.507	-11.15983	22.55276
emplw13	-1.775785	9.655291	-0.18	0.854	-20.77188	17.22031
emplw14	7.231981	21.91064	0.33	0.742	-35.87564	50.3396

emplw15	-3.36379	13.64348	-0.25	0.805	-30.20636	23.47879
emplw16	5.533914	8.762792	0.63	0.528	-11.70625	22.77408
occ1w1	13.01472	8.776528	1.48	0.139	-4.252471	30.28191
occ2w1	18.40079	9.279994	1.98	0.048	.1430698	36.65852
occ3w1	17.90149	9.260513	1.93	0.054	-.3179086	36.12088
occ4w1	13.88431	9.892345	1.40	0.161	-5.578167	33.34679
occ5w1	18.24992	10.6653	1.71	0.088	-2.733292	39.23313
occ6w1	7.428358	11.02375	0.67	0.501	-14.26009	29.1168
occ7w1	17.63859	9.709371	1.82	0.070	-1.463907	36.74108
occ8w1	14.75917	9.516396	1.55	0.122	-3.963654	33.482
inc1w1	-10.94622	8.43844	-1.30	0.196	-27.54825	5.655801
inc2w1	-12.5454	8.178181	-1.53	0.126	-28.63539	3.544584
inc3w1	-9.524446	8.256643	-1.15	0.250	-25.7688	6.719908
inc4w1	-8.737307	9.378697	-0.93	0.352	-27.18922	9.714607
radhlw1	.0382488	.0368704	1.04	0.300	-.0342911	.1107887
radchw1	.0048061	.0410599	0.12	0.907	-.0759764	.0855885
radtlw1	-.0582861	.0430603	-1.35	0.177	-.1430043	.026432
havmil	-.0003909	.0049678	-0.08	0.937	-.0101646	.0093829
educ2	6.432226	23.21597	0.28	0.782	-39.24354	52.10799
educ3	2.476915	22.94424	0.11	0.914	-42.66424	47.61807
educ4	11.69864	21.42054	0.55	0.585	-30.44473	53.84202
educ5	-7.117095	23.21123	-0.31	0.759	-52.78352	38.54933
educ6	-7.245055	22.98165	-0.32	0.753	-52.45981	37.9697
educ7	-43.68813	69.25367	-0.63	0.529	-179.9398	92.5635
ageXd1	.1521615	.3262956	0.47	0.641	-.4898017	.7941248
educ1Xd1	0	(omitted)				
educ2Xd1	35.76901	22.81494	1.57	0.118	-9.11776	80.65578
educ3Xd1	32.29052	22.53321	1.43	0.153	-12.04197	76.623
educ4Xd1	0	(omitted)				
educ5Xd1	32.93131	23.08813	1.43	0.155	-12.49294	78.35556
educ6Xd1	29.88168	23.19071	1.29	0.198	-15.74437	75.50774
educ7Xd1	104.5705	183.8	0.57	0.570	-257.0429	466.1838
educ8Xd1	0	(omitted)				
avgcumdosew1	-36.45948	28.34624	-1.29	0.199	-92.22867	19.30972
_cons	-4.022	26.53825	-0.15	0.880	-56.23411	48.19011

```
117 .
118 . scalar numModsigFw1 = 0

119 . // there are no moderators in wave 1 for females for pain in full model
120 . // occupation is main effect
121 .
122 .
123 . scalar tw1nobf = e(r2_a)

124 .
125 . scalar r2chabf = tw1bf - tw1nobf

126 .
127 . sw, pr(.1):regress WHPpain age  marrw11-marrw13 marrw15 childw1 ///
    >   emplw12-emplw16 occ1w1-occ8w1 inc1w1-inc4w1 radhlw1 radchw1 ///
    >   radtlw1 havmil educ2-educ7   ///
    >    ageXd1 educ2Xd1-educ8Xd1 avgcumdosew2 if gender==2
    note: educ8Xd1 dropped because of collinearity
                          begin with full model
    p = 0.9963 >= 0.1000  removing educ5Xd1
    p = 0.9680 >= 0.1000  removing havmil
    p = 0.9233 >= 0.1000  removing educ3Xd1
    p = 0.8950 >= 0.1000  removing emplw13
    p = 0.8623 >= 0.1000  removing emplw15
    p = 0.8459 >= 0.1000  removing educ7Xd1
    p = 0.9051 >= 0.1000  removing educ7
    p = 0.8281 >= 0.1000  removing radchw1
    p = 0.7771 >= 0.1000  removing marrw12
    p = 0.7154 >= 0.1000  removing educ5
    p = 0.9334 >= 0.1000  removing educ6
    p = 0.6744 >= 0.1000  removing emplw14
    p = 0.5684 >= 0.1000  removing educ6Xd1
    p = 0.5344 >= 0.1000  removing occ6w1
    p = 0.4700 >= 0.1000  removing inc4w1
    p = 0.4647 >= 0.1000  removing inc3w1
    p = 0.5258 >= 0.1000  removing inc1w1
    p = 0.4422 >= 0.1000  removing educ2Xd1
    p = 0.4219 >= 0.1000  removing occ4w1
    p = 0.4202 >= 0.1000  removing occ1w1
    p = 0.4915 >= 0.1000  removing occ8w1
    p = 0.4364 >= 0.1000  removing occ5w1
    p = 0.4634 >= 0.1000  removing inc2w1
    p = 0.3155 >= 0.1000  removing occ3w1
    p = 0.3329 >= 0.1000  removing occ7w1
    p = 0.2724 >= 0.1000  removing childw1
    p = 0.2414 >= 0.1000  removing radhlw1
    p = 0.2214 >= 0.1000  removing avgcumdosew2
    p = 0.1733 >= 0.1000  removing occ2w1
    p = 0.1042 >= 0.1000  removing educ4Xd1
```

```
p = 0.1017 >= 0.1000  removing marrw15
p = 0.2289 >= 0.1000  removing marrw11
p = 0.4829 >= 0.1000  removing marrw13
p = 0.1582 >= 0.1000  removing emplw12
p = 0.5624 >= 0.1000  removing emplw16
```

Source	SS	df	MS		
Model	44245.6799	6	7374.27999	Number of obs =	360
Residual	135500.856	353	383.855117	F(6, 353) =	19.21
				Prob > F =	0.0000
				R-squared =	0.2462
				Adj R-squared =	0.2333
Total	179746.536	359	500.68673	Root MSE =	19.592

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.5724407	.096293	5.94	0.000	.3830606	.7618209
radtlw1	-.058295	.0280355	-2.08	0.038	-.1134325	-.0031574
educ3	10.36489	2.304624	4.50	0.000	5.832366	14.8974
educ4	11.42103	4.29688	2.66	0.008	2.97033	19.87174
educ2	16.7665	4.41966	3.79	0.000	8.074327	25.45868
ageXd1	.0848203	.0331888	2.56	0.011	.0195478	.1500929
_cons	-14.23129	4.813121	-2.96	0.003	-23.69729	-4.765296

```
128 . scalar numMainEffsigTw1 = 5

129 . scalar numModsigTw1 = 1

130 .
131 . // in trimmed model age is a moderator in wave 1 for females
132 .
133 . matrix define FemaleWHPpainr2 = J(12,5,0)

134 . matrix colnames FemaleWHPpainr2 = FullBFR2a TR2aBF  TR2aNoBF  NumBF  BFR2cha

135 . matrix rownames FemaleWHPpainr2 = wave1  wave2  wave3  avg
```

```
136 . matlist FemaleWHPpainr2
```

	FullBFR2a	TR2aBF	TR2aNoBF	NumBF	BFR2cha
wave1	0	0	0	0	0
wave2	0	0	0	0	0
wave3	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0
avg	0	0	0	0	0

```
137 .
138 .
139 . matrix define FemaleWHPpainr2w1 = ( fw1 , tw1bf, tw1nobf, w1numbf, r2chabf)

140 . matrix colnames FemaleWHPpainr2w1 = FullBFR2a TR2aBF  TR2aNoBF  NumBF  BFR2c
    > ha

141 . matrix rownames FemaleWHPpainr2w1 = wave1

142 .
143 .
144 . matlist FemaleWHPpainr2w1
```

	FullBFR2a	TR2aBF	TR2aNoBF	NumBF	BFR2cha
wave1	.4791464	.4667625	.2066858	4	.2600767

```
145 . cap gen whppain=WHPpain

146 .
```

```
147 . *-------Mediators for wave 1 female Pain-----------------------------------
    > ---
148 . // age is possible mediator at wave1 for female Pain
149 . // education is another possible mediator
150 . sem (avgcumdosew1->age)(age->whppain) if gender==2, nocapslatent

    Endogenous variables

    Observed:  age whppain

    Exogenous variables

    Observed:  avgcumdosew1

    Fitting target model:

    Iteration 0:   log likelihood = -3315.4901
    Iteration 1:   log likelihood = -3315.4901

    Structural equation model                       Number of obs      =       363
    Estimation method  = ml
    Log likelihood     = -3315.4901

    ------------------------------------------------------------------------------
    > ----
                     |                 OIM
                     |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
    > val]
    -----------------+------------------------------------------------------------
    > ----
    Structural       |
      age <-         |
        avgcumdosew1 |   3.973879   1.114596     3.57   0.000      1.78931    6.15
    > 8447
               _cons |   48.88157   .7167212    68.20   0.000     47.47682    50.2
    > 8632
      ---------------+--------------------------------------------------------------
    > ----
      whppain <-     |
                 age |   .7333239   .0909308     8.06   0.000     .5551028    .911
    > 5451
               _cons |   -18.8122   4.691527    -4.01   0.000    -28.00742   -9.61
    > 6977
    -----------------+------------------------------------------------------------
    > ----
    Variance         |
               e.age |   135.7032   10.07284                      117.3297    156.
    > 9539
            e.whppain |    421.567   31.29164                      364.4891    487.
```

```
> 5832
-------------------+----------------------------------------------------------------
> -----
LR test of model vs. saturated: chi2(1)   =      6.86, Prob > chi2 = 0.0088

151 . sem (avgcumdosew1-> radtlw1)(radtlw1->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radtlw1 whppain

Exogenous variables

Observed:  avgcumdosew1

Fitting target model:

Iteration 0:   log likelihood =  -3776.135
Iteration 1:   log likelihood =  -3776.135

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     =  -3776.135

-------------------+----------------------------------------------------------------
> -----
                   |                 OIM
                   |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-------------------+----------------------------------------------------------------
> -----
Structural         |
  radtlw1 <-       |
    avgcumdosew1   |   1.429625   3.662884     0.39   0.696    -5.749497    8.60
> 8746
           _cons   |   61.53962   2.355353    26.13   0.000     56.92321    66.1
> 5603
  -----------------+----------------------------------------------------------------
> -----
  whppain <-       |
         radtlw1   |  -.0462864   .0304649    -1.52   0.129    -.1059965    .013
> 4237
           _cons   |   20.88222   2.220504     9.40   0.000     16.53011    25.2
> 3433
-------------------+----------------------------------------------------------------
> -----
Variance           |
       e.radtlw1   |   1465.553   108.7835                      1267.125    1695
> .054
```

```
       e.whppain |   493.9576   36.66497                      427.0784      57
> 1.31
-----------------+------------------------------------------------------------
> ----
LR test of model vs. saturated: chi2(1)   =     14.50, Prob > chi2 = 0.0001

152 . sem (avgcumdosew1-> educ2)(educ2-> whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  educ2 whppain

Exogenous variables

Observed:  avgcumdosew1

Fitting target model:

Iteration 0:   log likelihood = -1950.1975
Iteration 1:   log likelihood = -1950.1975

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -1950.1975

-----------------+------------------------------------------------------------
> ----
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> ----
Structural       |
  educ2 <-       |
    avgcumdosew1 |   .0495695   .0245352     2.02   0.043     .0014814    .097
> 6575
           _cons |   .0549939   .0157769     3.49   0.000     .0240717    .085
> 9161
  ---------------+------------------------------------------------------------
> ----
  whppain <-     |
           educ2 |   19.96704   4.415423     4.52   0.000     11.31297    28.6
> 2111
           _cons |   16.58142   1.181696    14.03   0.000     14.26534     18.
> 8975
-----------------+------------------------------------------------------------
> ----
Variance         |
         e.educ2 |   .0657558   .0048809                      .0568528    .076
```

```
> 0529
       e.whppain |   470.5883   34.93034                      406.8732    544.
> 2811
-----------------+------------------------------------------------------------
> ------
LR test of model vs. saturated: chi2(1)   =     11.55, Prob > chi2 = 0.0007

153 .
154 . // we do not count constant as a main effect
155 . matrix define H1p1FPnDosew1 = J(1,12,0)

156 . matrix define H1p1FPnDosew1 = (hyp, pt, wv, dsigfw1, dsigtw1, numMainEffsigF
    > w1, numMainEffsigTw1, numModsigFw1, numModsigTw1,numbfsigfw1,numbfsigtw1, 2)

157 . matrix  colnames H1p1FPnDosew1 = hypnum ptnum wv dsigfw1 dsigtw1 numMainEffs
    > igFw1 numMainEffsigTw1 numModFw1 numModTw1 numbfsigfw1 numbfsigtw1 numMedw1

158 . matrix  rownames H1p1FPnDosew1 = wave1

159 . matlist H1p1FPnDosew1

                |    hypnum      ptnum          wv    dsigfw1    dsigtw1  numMain~
> 1  numMain~1  numModFw1  numModTw1  numbfsi~1  numbfsi~1
----------------+------------------------------------------------------------
> ------------------------------------------------------------

       wave1 |         1          1          1          0          3
> 5          5          0          1          1          2

                |  numMedw1
----------------+-----------
       wave1 |         2

160 .
161 . scalar FemPainW1Meds = "educ and age"

162 . *  Wave 2 begins here------------------------------------------------------
    > ------------------------------------------------------------------------
```

```
163 . scalar wv = 2

164 .
165 . matrix define H1p1FPnDosew2 = J(1,12,0)

166 . matrix  colnames H1p1FPnDosew2 = hypnum ptnum wv dsigfw2 dsigtw2 numMainEffs
    > igFw2 numMainEffsigTw2 numModFw2 numModTw2 numbfsigfw2 numbfsigtw2 numMedw2

167 . matrix  rownames H1p1FPnDosew2 = wave2

168 . matlist H1p1FPnDosew2

             |    hypnum      ptnum         wv    dsigfw2    dsigtw2  numMain~
> 2  numMain~2  numModFw2  numModTw2  numbfsi~2  numbfsi~2
-------------+------------------------------------------------------------------
> -------------------------------------------------------------

       wave2 |          0          0          0          0          0
> 0          0          0          0          0          0

             |  numMedw2
-------------+----------
       wave2 |          0

169 .
170 .
171 . //  wave 2 possible socio-demog covariates full Female model
172 . regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2 ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 if gender==2

      Source |       SS       df       MS              Number of obs =     363
-------------+------------------------------           F( 29,   333) =    4.87
       Model |  53730.871     29  1852.78866           Prob > F      =  0.0000
    Residual |  126715.993    333  380.528506          R-squared     =  0.2978
-------------+------------------------------           Adj R-squared =  0.2366
       Total |  180446.864    362  498.471999          Root MSE      =  19.507

------------------------------------------------------------------------------
     WHPpain |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .4653355   .1258015     3.70   0.000     .2178697    .7128013
       educ2 |   22.19364   20.67575     1.07   0.284     -18.4779    62.86517
       educ3 |   16.52753    20.5924     0.80   0.423    -23.98007    57.03512
       educ4 |   16.72529   20.95546     0.80   0.425    -24.49648    57.94707
       educ5 |   10.45479   20.73525     0.50   0.614     -30.3338    51.24339
       educ6 |   9.104453   20.63396     0.44   0.659    -31.48488    49.69379
       educ7 |   .4700746   24.73599     0.02   0.985    -48.18842    49.12857
     marrw21 |  -2.649277   6.563492    -0.40   0.687    -15.56041    10.26186
     marrw22 |   7.657347   9.038896     0.85   0.398    -10.12319    25.43788
     marrw23 |  -1.254276   5.443256    -0.23   0.818    -11.96178    9.453227
```

```
      marrw25 |   .7060605   7.872103     0.09   0.929    -14.77926    16.19138
      childw2 |   2.028007   1.634775     1.24   0.216    -1.187782    5.243796
      emplw22 |  -1.018348    8.67969    -0.12   0.907    -18.09228    16.05559
      emplw23 |    1.51055   9.232483     0.16   0.870    -16.65079    19.67189
      emplw24 |   .8382884   21.52942     0.04   0.969    -41.51252    43.18909
      emplw25 |   9.668135   10.19705     0.95   0.344    -10.39061    29.72688
      emplw26 |  -1.035949   9.415969    -0.11   0.912    -19.55823    17.48633
       occ1w2 |   22.01692   10.26164     2.15   0.033     1.831104    42.20274
       occ2w2 |   23.36023   10.53015     2.22   0.027      2.64623    44.07422
       occ3w2 |   34.73625   10.53764     3.30   0.001     14.00752    55.46498
       occ4w2 |   28.31046   11.27444     2.51   0.013     6.132356    50.48856
       occ5w2 |   23.35241   12.18835     1.92   0.056    -.6234592    47.32827
       occ6w2 |   17.74269    12.1992     1.45   0.147    -6.254515    41.73989
       occ7w2 |   16.91919   11.33408     1.49   0.136    -5.376241    39.21462
       occ8w2 |   19.46623   11.31773     1.72   0.086    -2.797039    41.72949
       inc1w2 |  -12.72261   10.43166    -1.22   0.223    -33.24287    7.797646
       inc2w2 |  -17.52541   10.23151    -1.71   0.088    -37.65196    2.601129
       inc3w2 |  -20.00232   10.31447    -1.94   0.053    -40.29205    .2874141
       inc4w2 |  -25.87366   12.25014    -2.11   0.035    -49.97108   -1.776248
        _cons |  -25.05568   24.10614    -1.04   0.299     -72.4752    22.36383
------------------------------------------------------------------------------

173 .
174 . local bfw2 bfffpain2 bfffpain4 bfffpain8 bfffpain9 bfffpain11 ///
    >   bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpain
    > 25 ///
    >    bfffpain28

175 .
176 . des `bfw2'

              storage  display     value
variable name   type   format      label      variable label
------------------------------------------------------------------------------
bfffpain2       byte   %9.0g                  max(0, 23 - BSIsoma)
bfffpain4       float  %9.0g                  max(0, occ3w2 + 2.13147e-009)
bfffpain8       byte   %9.0g                  max(0, BSIsoma - 13)
bfffpain9       byte   %9.0g                  max(0, 13-BSIsoma)
bfffpain11      int    %9.0g                  max(0, 80- radw2)*bfffpain8
                                                female pain series
bfffpain14      float  %9.0g                   max(0, havmil - 112.275) *
                                                bfffpain11
bfffpain15      float  %9.0g                   max(0, 112.275 - havmil) *
                                                bfffpain11
bfffpain17      float  %9.0g                  max(0, defnw2 - 90)* bfffpain4
bfffpain19      float  %9.0g                   (CSprbslv != . ) * bfffpain15
bfffpain21      float  %9.0g                  max(0, CSprbslv - 29) *
                                                bfffpain19
bfffpain22      float  %9.0g                  max(0, 29-CSprbslv)*bfffpain19
```

```
bfffpain25      float  %9.0g                 max(0, suchrw2 - 2.24572e-006) *
                                               bfffpain23
bfffpain28      float  %9.0g                 max(0, age - 28)*bfffpain22

177 .
178 . regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2 ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil avgcumdosew2 if gender==2
```

Source	SS	df	MS		
Model	56925.3141	34	1674.27395	Number of obs =	363
Residual	123521.549	328	376.59009	F(34, 328) =	4.45
				Prob > F =	0.0000
				R-squared =	0.3155
				Adj R-squared =	0.2445
Total	180446.864	362	498.471999	Root MSE =	19.406

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.4072238	.1274411	3.20	0.002	.1565188	.6579289
educ2	19.75361	20.65185	0.96	0.340	-20.87317	60.3804
educ3	15.22795	20.52023	0.74	0.459	-25.13992	55.59582
educ4	15.85307	20.88148	0.76	0.448	-25.22544	56.93159
educ5	8.31414	20.66347	0.40	0.688	-32.33551	48.96379
educ6	8.237747	20.56095	0.40	0.689	-32.21022	48.68571
educ7	-9.692616	24.96229	-0.39	0.698	-58.799	39.41377
marrw21	-3.311799	6.55865	-0.50	0.614	-16.21413	9.590527
marrw22	4.57084	9.108361	0.50	0.616	-13.34734	22.48902
marrw23	-1.297564	5.426841	-0.24	0.811	-11.97337	9.378242
marrw25	-.9470013	7.857145	-0.12	0.904	-16.40376	14.50975
childw2	2.096793	1.629364	1.29	0.199	-1.108529	5.302115
emplw22	-.8878241	8.661248	-0.10	0.918	-17.92643	16.15078
emplw23	-.0273601	9.242454	-0.00	0.998	-18.20933	18.15461
emplw24	7.216659	21.59743	0.33	0.738	-35.2703	49.70362
emplw25	9.273765	10.15816	0.91	0.362	-10.70961	29.25714
emplw26	-.300219	9.383997	-0.03	0.974	-18.76063	18.16019
occ1w2	21.1161	10.26944	2.06	0.041	.9138309	41.31837
occ2w2	22.34936	10.53805	2.12	0.035	1.618662	43.08005
occ3w2	34.02967	10.55479	3.22	0.001	13.26603	54.7933
occ4w2	26.3198	11.33244	2.32	0.021	4.026354	48.61324
occ5w2	24.21878	12.27096	1.97	0.049	.0790609	48.3585
occ6w2	17.30573	12.16232	1.42	0.156	-6.62026	41.23172
occ7w2	15.62959	11.32046	1.38	0.168	-6.640289	37.89946
occ8w2	18.91034	11.37599	1.66	0.097	-3.468771	41.28944
inc1w2	-10.64045	10.44232	-1.02	0.309	-31.18282	9.901914
inc2w2	-15.72855	10.25973	-1.53	0.126	-35.91173	4.454622
inc3w2	-18.02464	10.32964	-1.74	0.082	-38.34534	2.296063
inc4w2	-24.51497	12.2796	-2.00	0.047	-48.67169	-.3582518
radhlw2	.0868739	.0380272	2.28	0.023	.012066	.1616819

```
      radchw2 |  -.0582328   .0418642    -1.39   0.165    -.1405891    .0241235
      radtlw2 |   .0016077   .0432485     0.04   0.970    -.0834718    .0866872
       havmil |  -.0005926   .0046162    -0.13   0.898    -.0096737    .0084886
  avgcumdosew2 |   1.140671   .8052911     1.42   0.158    -.4435163    2.724858
        _cons |  -24.08382   24.19261    -1.00   0.320    -71.67608    23.50844
------------------------------------------------------------------------------

179 .
180 .  local bfw2 bfffpain2 bfffpain4 bfffpain8 bfffpain9 bfffpain11 ///
    >    bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpai
    > n25 ///
    >     bfffpain28

181 .
182 . set more off

183 . regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2 ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil `bfw2' avgcumdosew2  bfpn2Xd2-bfpn28Xd2 ///
    >   bfffpain2 bfffpain11 bfffpain15 bfffpain21 if gender==2
  note: bfffpain4 omitted because of collinearity
  note: bfffpain11 omitted because of collinearity
  note: bfffpain2 omitted because of collinearity
  note: bfffpain15 omitted because of collinearity
  note: bfffpain21 omitted because of collinearity

      Source |       SS       df       MS              Number of obs =     363
-------------+------------------------------           F( 54,   308) =   10.16
       Model |  115574.463    54  2140.26784            Prob > F      =  0.0000
    Residual |  64872.4003   308  210.624676            R-squared     =  0.6405
-------------+------------------------------           Adj R-squared =  0.5775
       Total |  180446.864   362  498.471999            Root MSE      =  14.513

------------------------------------------------------------------------------
     WHPpain |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         age |   .1154821   .1034361     1.12   0.265    -.0880487    .3190129
       educ2 |   13.28915   15.80517     0.84   0.401    -17.81062    44.38891
       educ3 |   9.151751   15.70468     0.58   0.560    -21.75029    40.05379
       educ4 |   10.99618   16.12405     0.68   0.496    -20.73104     42.7234
       educ5 |   8.431832   15.83787     0.53   0.595    -22.73227    39.59594
       educ6 |    7.69973   15.75126     0.49   0.625    -23.29396    38.69342
       educ7 |   1.999607    21.0843     0.09   0.925    -39.48788     43.4871
     marrw21 |   5.143053   5.350017     0.96   0.337    -5.384154    15.67026
     marrw22 |   10.75952   7.316123     1.47   0.142    -3.636387    25.15543
     marrw23 |   3.346352    4.55152     0.74   0.463    -5.609656    12.30236
     marrw25 |   2.205392   6.202753     0.36   0.722    -9.999741    14.41052
     childw2 |   2.369898   1.256144     1.89   0.060    -.1018122    4.841608
     emplw22 |  -1.980152   6.565122    -0.30   0.763    -14.89832    10.93801
```

emplw23	-3.306183	7.005526	-0.47	0.637	-17.09093	10.47856
emplw24	-6.211803	16.22806	-0.38	0.702	-38.14369	25.72008
emplw25	4.645329	8.04135	0.58	0.564	-11.1776	20.46826
emplw26	-2.972128	7.089966	-0.42	0.675	-16.92303	10.97877
occ1w2	9.651532	7.834401	1.23	0.219	-5.764187	25.06725
occ2w2	11.66846	8.002758	1.46	0.146	-4.078539	27.41545
occ3w2	11.60636	8.224044	1.41	0.159	-4.576055	27.78878
occ4w2	12.44545	8.754492	1.42	0.156	-4.780734	29.67162
occ5w2	10.01407	9.361267	1.07	0.286	-8.40606	28.4342
occ6w2	10.34189	9.270921	1.12	0.265	-7.900459	28.58425
occ7w2	5.076132	8.76648	0.58	0.563	-12.17364	22.3259
occ8w2	7.924044	8.661986	0.91	0.361	-9.120111	24.9682
inc1w2	-2.604353	7.957518	-0.33	0.744	-18.26233	13.05362
inc2w2	-2.606828	7.87915	-0.33	0.741	-18.1106	12.89694
inc3w2	-4.498525	7.979853	-0.56	0.573	-20.20045	11.2034
inc4w2	-5.790021	9.418941	-0.61	0.539	-24.32363	12.74359
radhlw2	-.0065327	.0300463	-0.22	0.828	-.0656548	.0525893
radchw2	-.0187895	.0328008	-0.57	0.567	-.0833316	.0457526
radtlw2	.0309927	.0335392	0.92	0.356	-.0350022	.0969876
havmil	-.0011947	.0035708	-0.33	0.738	-.008221	.0058316
bfffpain2	-1.415432	1.016297	-1.39	0.165	-3.415196	.5843323
bfffpain4	0	(omitted)				
bfffpain8	.2429627	.7901223	0.31	0.759	-1.311758	1.797683
bfffpain9	.5709832	1.181039	0.48	0.629	-1.752943	2.89491
bfffpain11	0	(omitted)				
bfffpain14	-.0008414	.0003427	-2.46	0.015	-.0015158	-.0001671
bfffpain15	-.0017779	.0007611	-2.34	0.020	-.0032754	-.0002803
bfffpain17	2.477668	.5437698	4.56	0.000	1.407695	3.547642
bfffpain19	.0009158	.0007189	1.27	0.204	-.0004988	.0023303
bfffpain21	-.0004104	.0002145	-1.91	0.057	-.0008325	.0000118
bfffpain22	-.0000844	.0001473	-0.57	0.567	-.0003743	.0002055
bfffpain25	.0000282	6.61e-06	4.27	0.000	.0000152	.0000412
bfffpain28	2.51e-06	4.33e-06	0.58	0.563	-6.01e-06	.000011
avgcumdosew2	3.56346	1.629729	2.19	0.030	.3566493	6.770271
bfpn2Xd2	-.3505898	.1909562	-1.84	0.067	-.7263335	.0251539
bfpn11Xd2	-.0334925	.0139726	-2.40	0.017	-.0609863	-.0059986
bfpn14Xd2	.0004129	.0004933	0.84	0.403	-.0005578	.0013836
bfpn15Xd2	.0003043	.0002529	1.20	0.230	-.0001932	.0008019
bfpn17Xd2	-.0380409	.1613166	-0.24	0.814	-.3554628	.2793811
bfpn21Xd2	.0000736	.0001975	0.37	0.710	-.000315	.0004622
bfpn22Xd2	-.0000201	.0001839	-0.11	0.913	-.0003819	.0003417
bfpn28Xd2	5.89e-07	5.58e-06	0.11	0.916	-.0000104	.0000116
bfffpain2	0	(omitted)				
bfffpain11	.0918452	.0188769	4.87	0.000	.0547012	.1289891
bfffpain15	0	(omitted)				
bfffpain21	0	(omitted)				
_cons	.206243	21.1106	0.01	0.992	-41.333	41.74548

```
184 .
185 . scalar fw2 = e(r2_a)

186 . scalar dsigfw2 = 0

187 . scalar numMainEffsigFw2 = 8

188 . scalar numbfsigfw2 = 7

189 . scalar numModsigFw2 = 2

190 .
191 . // wave 2 trimmed model of possible socio-demog covariates Female model
192 . set more off

193 . regress WHPpain age childw2 ///
    >    avgcumdosew2 if gender==2
```

Source	SS	df	MS		
Model	**29884.2454**	**3**	**9961.41513**	Number of obs =	**363**
Residual	**150562.618**	**359**	**419.39448**	F(3, 359) =	**23.75**
				Prob > F =	**0.0000**
				R-squared =	**0.1656**
				Adj R-squared =	**0.1586**
Total	**180446.864**	**362**	**498.471999**	Root MSE =	**20.479**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	**.6136289**	**.1071441**	**5.73**	**0.000**	**.4029199**	**.8243379**
childw2	**2.389839**	**1.431159**	**1.67**	**0.096**	**-.4246705**	**5.204348**
avgcumdosew2	**1.431661**	**.7920692**	**1.81**	**0.072**	**-.1260173**	**2.98934**
_cons	**-17.07283**	**4.773327**	**-3.58**	**0.000**	**-26.46002**	**-7.68563**

```
194 . // note that avgcumdosew2 is not significant main effect in this model so we
195 . //  need not worry about moderators  in wave 2 female analysis  if we base
196 . //  moderators on significant main effects
```

```
197 .
198 . local bfw2 bfffpain2 bfffpain4 bfffpain8 bfffpain9 bfffpain11 ///
    >    bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpai
    > n25 ///
    >     bfffpain28

199 .
200 .
201 . des WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2 ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil avgcumdosew2 `bfw2'

              storage  display     value
variable name   type   format      label      variable label
------------------------------------------------------------------------------
WHPpain         double %9.0g                  Wtd Health Profile Pain Pt 1
                                                subscale
age             byte   %8.0g                * Respondent's age
educ2           byte   %8.0g                  educ==2. graduated high school
educ3           byte   %8.0g                  educ==3. technical degree
educ4           byte   %8.0g                  educ==4. did not finish
                                                college/bachelor's
educ5           byte   %8.0g                  educ==5. graduated
                                                college/bachelor's
educ6           byte   %8.0g                  educ==6. finished
                                                specialist/master's degree
educ7           byte   %8.0g                  educ==7. doctor of science/phd
marrw21         byte   %8.0g                  marrw2==1. single
marrw22         byte   %8.0g                  marrw2==2. cohabitating
marrw23         byte   %8.0g                  marrw2==3. married
marrw25         byte   %8.0g                  marrw2==5. divorced
childw2         byte   %8.0g                  number of children in 1996
emplw22         byte   %8.0g                  emplw2==1. full time
emplw23         byte   %8.0g                  emplw2==2. part time
emplw24         byte   %8.0g                  emplw2==3. voluntary
emplw25         byte   %8.0g                  emplw2==4. retired
emplw26         byte   %8.0g                  emplw2==5. unemployed
occ1w2          byte   %15.0g      LABJ       profess executive administration
                                                in 1996
occ2w2          byte   %15.0g      LABJ       technical sales admin support in
                                                1996
occ3w2          byte   %15.0g      LABJ       service occup protective
                                                services in 1996
occ4w2          byte   %15.0g      LABJ       precision prod mechan craft
                                                construction in 1996
occ5w2          byte   %15.0g      LABJ       factory laborer machinist transp
                                                cleaner in 1996
occ6w2          byte   %15.0g      LABJ       farming agricul forestry fishing
                                                trapping logging in 1996
```

occ7w2	byte	%15.0g	LABJ	**homemaking caregiving in 1996**
occ8w2	byte	%15.0g	LABJ	**student in 1996**
inc1w2	byte	%15.0g	LABJ	**Income is not sufficient for basic neccessities in 1996**
inc2w2	byte	%15.0g	LABJ	**Income is just sufficient for basic neccessities in 1996**
inc3w2	byte	%15.0g	LABJ	**Income is sufficient for basics plus extra purchases/savings in 1996**
inc4w2	byte	%15.0g	LABJ	**Income allows to comfortably afford luxury items in 1996**
radhlw2	byte	%8.0g		**how much believed personal health is affected by radiation in 1996**
radchw2	byte	%8.0g		**believed % of polution related to chornobyl in 1996**
radtlw2	byte	%8.0g		**believed % of cumulative radiation exposed to in a lifetime in 1996**
havmil	double	%9.0g		**Distance from Chornobyl in miles**
avgcumdosew2	double	%8.0g		**Average mean dose CS1337 in mGy for wave 2**
bfffpain2	byte	%9.0g		**max(0, 23 - BSIsoma)**
bfffpain4	float	%9.0g		**max(0, occ3w2 + 2.13147e-009)**
bfffpain8	byte	%9.0g		**max(0, BSIsoma - 13)**
bfffpain9	byte	%9.0g		**max(0, 13-BSIsoma)**
bfffpain11	int	%9.0g		**max(0, 80- radw2)*bfffpain8 female pain series**
bfffpain14	float	%9.0g		**max(0, havmil - 112.275) * bfffpain11**
bfffpain15	float	%9.0g		**max(0, 112.275 - havmil) * bfffpain11**
bfffpain17	float	%9.0g		**max(0, defnw2 - 90)* bfffpain4**
bfffpain19	float	%9.0g		**(CSprbslv != .) * bfffpain15**
bfffpain21	float	%9.0g		**max(0, CSprbslv - 29) * bfffpain19**
bfffpain22	float	%9.0g		**max(0, 29-CSprbslv)*bfffpain19**
bfffpain25	float	%9.0g		**max(0, suchrw2 - 2.24572e-006) * bfffpain23**
bfffpain28	float	%9.0g		**max(0, age - 28)*bfffpain22**

```
202 .
203 . local bfw2b bfffpain2 bfffpain8 bfffpain9 bfffpain11 ///
    >    bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpai
    > n25 ///
    >     bfffpain28

204 .
205 . set more off

206 . sw, pr(.05): regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2
    >  ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil `bfw2b' avgcumdosew2  if gender==2
                          begin with full model
    p = 0.9322 >= 0.0500  removing bfffpain8
    p = 0.9011 >= 0.0500  removing educ7
    p = 0.8266 >= 0.0500  removing avgcumdosew2
    p = 0.8058 >= 0.0500  removing havmil
    p = 0.7994 >= 0.0500  removing radhlw2
    p = 0.8049 >= 0.0500  removing marrw25
    p = 0.7807 >= 0.0500  removing emplw22
    p = 0.7576 >= 0.0500  removing emplw24
    p = 0.6785 >= 0.0500  removing inc1w2
    p = 0.8152 >= 0.0500  removing inc2w2
    p = 0.6250 >= 0.0500  removing emplw26
    p = 0.6253 >= 0.0500  removing emplw23
    p = 0.6328 >= 0.0500  removing marrw23
    p = 0.6232 >= 0.0500  removing inc4w2
    p = 0.5667 >= 0.0500  removing marrw21
    p = 0.5590 >= 0.0500  removing age
    p = 0.5306 >= 0.0500  removing radchw2
    p = 0.4863 >= 0.0500  removing educ6
    p = 0.7893 >= 0.0500  removing educ5
    p = 0.4035 >= 0.0500  removing educ4
    p = 0.4460 >= 0.0500  removing educ3
    p = 0.3171 >= 0.0500  removing occ7w2
    p = 0.3238 >= 0.0500  removing radtlw2
    p = 0.2975 >= 0.0500  removing inc3w2
    p = 0.2508 >= 0.0500  removing occ8w2
    p = 0.2596 >= 0.0500  removing occ5w2
    p = 0.1397 >= 0.0500  removing occ6w2
    p = 0.1313 >= 0.0500  removing marrw22
    p = 0.1129 >= 0.0500  removing bfffpain19
    p = 0.0810 >= 0.0500  removing emplw25
    p = 0.1544 >= 0.0500  removing occ1w2
    p = 0.1989 >= 0.0500  removing occ3w2
    p = 0.2211 >= 0.0500  removing occ4w2
    p = 0.2239 >= 0.0500  removing occ2w2
    p = 0.1093 >= 0.0500  removing bfffpain9
```

p = **0.0570** >= 0.0500 removing **educ2**

Source	SS	df	MS		
Model	**106840.179**	**10**	**10684.0179**	Number of obs =	**363**
Residual	**73606.6845**	**352**	**209.109899**	F(10, 352) =	**51.09**
				Prob > F =	**0.0000**
Total	**180446.864**	**362**	**498.471999**	R-squared =	**0.5921**
				Adj R-squared =	**0.5805**
				Root MSE =	**14.461**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
bfffpain21	**-.0003203**	**.0000909**	**-3.52**	**0.000**	**-.0004991**	**-.0001416**
childw2	**2.427672**	**.9107293**	**2.67**	**0.008**	**.6365168**	**4.218827**
bfffpain14	**-.0005502**	**.000105**	**-5.24**	**0.000**	**-.0007567**	**-.0003437**
bfffpain11	**.06743**	**.0097062**	**6.95**	**0.000**	**.0483405**	**.0865195**
bfffpain15	**-.0006398**	**.0001302**	**-4.91**	**0.000**	**-.0008958**	**-.0003837**
bfffpain22	**-.0001255**	**.0000429**	**-2.93**	**0.004**	**-.0002099**	**-.0000412**
bfffpain28	**4.13e-06**	**1.29e-06**	**3.19**	**0.002**	**1.59e-06**	**6.68e-06**
bfffpain25	**.0000307**	**5.76e-06**	**5.33**	**0.000**	**.0000194**	**.000042**
bfffpain17	**2.660815**	**.3753315**	**7.09**	**0.000**	**1.922641**	**3.398989**
bfffpain2	**-1.730386**	**.211836**	**-8.17**	**0.000**	**-2.147009**	**-1.313762**
_cons	**26.92723**	**2.920023**	**9.22**	**0.000**	**21.18435**	**32.67012**

```
207 . scalar numbfsigfw2=9

208 .
209 . scalar dsigtw2 = 0

210 . scalar numMainEffsigTw2 = 5

211 .
212 . scalar tw2bf = e(r2_a)

213 .
214 . local bfw2b bfffpain2 bfffpain8 bfffpain9 bfffpain11 ///
    >    bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpai
    > n25 ///
    >     bfffpain28
```

```
215 .
216 . set more off

217 . sw, pr(.05): regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2
    >  ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil avgcumdosew2 `bfw2b' if gender==2
                        begin with full model
    p = 0.9322 >= 0.0500  removing bfffpain8
    p = 0.9011 >= 0.0500  removing educ7
    p = 0.8266 >= 0.0500  removing avgcumdosew2
    p = 0.8058 >= 0.0500  removing havmil
    p = 0.7994 >= 0.0500  removing radhlw2
    p = 0.8049 >= 0.0500  removing marrw25
    p = 0.7807 >= 0.0500  removing emplw22
    p = 0.7576 >= 0.0500  removing emplw24
    p = 0.6785 >= 0.0500  removing inc1w2
    p = 0.8152 >= 0.0500  removing inc2w2
    p = 0.6250 >= 0.0500  removing emplw26
    p = 0.6253 >= 0.0500  removing emplw23
    p = 0.6328 >= 0.0500  removing marrw23
    p = 0.6232 >= 0.0500  removing inc4w2
    p = 0.5667 >= 0.0500  removing marrw21
    p = 0.5590 >= 0.0500  removing age
    p = 0.5306 >= 0.0500  removing radchw2
    p = 0.4863 >= 0.0500  removing educ6
    p = 0.7893 >= 0.0500  removing educ5
    p = 0.4035 >= 0.0500  removing educ4
    p = 0.4460 >= 0.0500  removing educ3
    p = 0.3171 >= 0.0500  removing occ7w2
    p = 0.3238 >= 0.0500  removing radtlw2
    p = 0.2975 >= 0.0500  removing inc3w2
    p = 0.2508 >= 0.0500  removing occ8w2
    p = 0.2596 >= 0.0500  removing occ5w2
    p = 0.1397 >= 0.0500  removing occ6w2
    p = 0.1313 >= 0.0500  removing marrw22
    p = 0.1129 >= 0.0500  removing bfffpain19
    p = 0.0810 >= 0.0500  removing emplw25
    p = 0.1544 >= 0.0500  removing occ1w2
    p = 0.1989 >= 0.0500  removing occ3w2
    p = 0.2211 >= 0.0500  removing occ4w2
    p = 0.2239 >= 0.0500  removing occ2w2
    p = 0.1093 >= 0.0500  removing bfffpain9
    p = 0.0570 >= 0.0500  removing educ2
```

Source	SS	df	MS		
Model	106840.179	10	10684.0179	Number of obs =	363
Residual	73606.6845	352	209.109899	F(10, 352) =	51.09
				Prob > F =	0.0000
Total	180446.864	362	498.471999	R-squared =	0.5921
				Adj R-squared =	0.5805
				Root MSE =	14.461

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
bfffpain28	4.13e-06	1.29e-06	3.19	0.002	1.59e-06	6.68e-06
bfffpain17	2.660815	.3753315	7.09	0.000	1.922641	3.398989
bfffpain11	.06743	.0097062	6.95	0.000	.0483405	.0865195
childw2	2.427672	.9107293	2.67	0.008	.6365168	4.218827
bfffpain14	-.0005502	.000105	-5.24	0.000	-.0007567	-.0003437
bfffpain21	-.0003203	.0000909	-3.52	0.000	-.0004991	-.0001416
bfffpain25	.0000307	5.76e-06	5.33	0.000	.0000194	.000042
bfffpain2	-1.730386	.211836	-8.17	0.000	-2.147009	-1.313762
bfffpain15	-.0006398	.0001302	-4.91	0.000	-.0008958	-.0003837
bfffpain22	-.0001255	.0000429	-2.93	0.004	-.0002099	-.0000412
_cons	26.92723	2.920023	9.22	0.000	21.18435	32.67012

```
218 .
219 .
220 .
221 . * Moderator  Wave 2 female analysis
222 .
223 . foreach num in 2 11 14 15 17 21 22 28 {
      2. cap gen childw2*d2 = childw2*
      3. cap gen bfpn`num'Xd2 = bfffpain`num'*avgcumdosew2
      4.  }

224 .
225 .
226 . local bfw2b bfffpain2 bfffpain8 bfffpain9 bfffpain11 ///
    >    bfffpain14 bfffpain15 bfffpain17 bfffpain19 bfffpain21 bfffpain22 bfffpai
    > n25 ///
    >     bfffpain28
```

```
227 .
228 . set more off

229 . sw, pr(.05): regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2
    >  ///
    >   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 radhlw2 radchw2 ///
    >   radtlw2 havmil avgcumdosew2 `bfw2b' bfpn2Xd2-bfpn28Xd2 if gender==2
                        begin with full model
    p = 0.9245 >= 0.0500  removing educ7
    p = 0.9217 >= 0.0500  removing bfpn28Xd2
    p = 0.9590 >= 0.0500  removing bfpn22Xd2
    p = 0.8312 >= 0.0500  removing radhlw2
    p = 0.7608 >= 0.0500  removing emplw22
    p = 0.7857 >= 0.0500  removing emplw24
    p = 0.7880 >= 0.0500  removing emplw26
    p = 0.7685 >= 0.0500  removing inc1w2
    p = 0.9257 >= 0.0500  removing inc2w2
    p = 0.7604 >= 0.0500  removing bfpn17Xd2
    p = 0.7546 >= 0.0500  removing havmil
    p = 0.7437 >= 0.0500  removing bfffpain8
    p = 0.7403 >= 0.0500  removing marrw25
    p = 0.6147 >= 0.0500  removing emplw23
    p = 0.5944 >= 0.0500  removing occ7w2
    p = 0.5424 >= 0.0500  removing inc4w2
    p = 0.5502 >= 0.0500  removing marrw23
    p = 0.5259 >= 0.0500  removing marrw21
    p = 0.5093 >= 0.0500  removing educ6
    p = 0.7514 >= 0.0500  removing educ5
    p = 0.6086 >= 0.0500  removing bfpn21Xd2
    p = 0.4619 >= 0.0500  removing radchw2
    p = 0.4863 >= 0.0500  removing radtlw2
    p = 0.3949 >= 0.0500  removing educ3
    p = 0.3798 >= 0.0500  removing educ4
    p = 0.3797 >= 0.0500  removing bfpn14Xd2
    p = 0.4098 >= 0.0500  removing age
    p = 0.3250 >= 0.0500  removing inc3w2
    p = 0.2632 >= 0.0500  removing occ8w2
    p = 0.2183 >= 0.0500  removing occ5w2
    p = 0.2256 >= 0.0500  removing marrw22
    p = 0.1998 >= 0.0500  removing bfffpain9
    p = 0.2241 >= 0.0500  removing occ6w2
    p = 0.1217 >= 0.0500  removing educ2
    p = 0.1268 >= 0.0500  removing occ4w2
    p = 0.1960 >= 0.0500  removing occ1w2
    p = 0.1991 >= 0.0500  removing occ3w2
    p = 0.1797 >= 0.0500  removing emplw25
    p = 0.2060 >= 0.0500  removing occ2w2
    p = 0.0512 >= 0.0500  removing bfffpain19
```

Source	SS	df	MS	Number of obs =	363
				F(14, 348) =	38.26
Model	109377.744	14	7812.69602	Prob > F =	0.0000
Residual	71069.1193	348	204.221607	R-squared =	0.6061
				Adj R-squared =	0.5903
Total	180446.864	362	498.471999	Root MSE =	14.291

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
bfffpain28	4.20e-06	1.29e-06	3.27	0.001	1.67e-06	6.73e-06
bfpn11Xd2	-.0307061	.0110038	-2.79	0.006	-.0523485	-.0090638
bfffpain22	-.0001342	.0000425	-3.16	0.002	-.0002179	-.0000505
bfffpain25	.0000297	5.70e-06	5.21	0.000	.0000185	.0000409
bfffpain2	-1.333867	.2578317	-5.17	0.000	-1.840972	-.8267629
bfffpain21	-.0003365	.0000905	-3.72	0.000	-.0005144	-.0001585
avgcumdosew2	4.084977	1.323952	3.09	0.002	1.481023	6.688932
bfpn2Xd2	-.3646002	.1723056	-2.12	0.035	-.7034917	-.0257088
bfffpain15	-.0008939	.000172	-5.20	0.000	-.0012321	-.0005557
bfffpain11	.0985088	.0147951	6.66	0.000	.0694097	.1276078
bfffpain14	-.0005838	.0001065	-5.48	0.000	-.0007932	-.0003744
childw2	2.679788	.9089188	2.95	0.003	.8921225	4.467453
bfpn15Xd2	.0002578	.0001033	2.50	0.013	.0000547	.0004609
bfffpain17	2.531805	.3771758	6.71	0.000	1.789974	3.273636
_cons	22.00118	3.278805	6.71	0.000	15.55241	28.44995

```
230 .
231 .   // signif moderators bfffpain2(larger negative)   and bfffpain15 (tiny neg
    > ative)
232 .
233 .   // bfffpain15 is a 3 way involving BSIsoma radw2 and CSprbslv
234 .   // graphical presentation would be done through simple main effects
235 .   // bfffpain2 is a bf entailing conditional recentering of BSIsoma
236 .   // occ3w2 = protective services (security guard)
237 .
238 .
```

```
239 . lowess WHPpain BSIsoma if gender==2   // gradual increase and then leveling
    > off (slight s shape)

240 . lowess WHPpain radw2 if gender==2     // flat almost Jeffrey's prior with sl
    > ight U shape

241 . lowess WHPpain CSprbslv if gender==2   // gradual decline then leveling off

242 . lowess WHPpain havmil if gender==2     // gradual decline then leveling off

243 .
244 .
245 . scalar numModsigTw2 = 3

246 .
247 . scalar tw2nobf = e(r2_a)

248 .
249 . scalar numbfsigTw2=9

250 . scalar w2numbf = 9

251 .
252 . scalar r2chabfw2 = tw2bf - tw2nobf

253 .
254 . matrix define FemaleWHPpainr2w2 = ( fw2 , tw2bf, tw2nobf, w2numbf, r2chabfw2
    > )

255 . matrix colnames FemaleWHPpainr2w2 = FullBFR2a TR2aBF  TR2aNoBF  NumBF  BFR2c
    > ha

256 . matrix rownames FemaleWHPpainr2w2 = wave2

257 . matlist FemaleWHPpainr2w2
```

	FullBFR2a	TR2aBF	TR2aNoBF	NumBF	BFR2cha
wave2	**.5774594**	**.5804982**	**.5903048**	**9**	**-.0098066**

```
258 .
259 . // we would have to graph bfpn11xd2, bfpn15Xd2 and bfpn2Xd2 a 4 way inter-
260 . // action between BSIsoma havmil radw2 BSIsoma^2
261 . // we could decompose this into its simple effects
262 .
263 . * bfpn2Xd2 = d2 * max(0,23-BSIsoma)
264 . * bfpn15Xd2 = d2 * max(0,havmil-112.275)
265 . * bfpn22Xd2 = d2 * max0,29-CSprbslv)*bfffpain19
266 . * bfffpain19 = (0, CSprbslv -29)* bfffpain15
267 . * bfffpain15 = max(0,112.275-havmil)*bfffpain11
268 . * bfffpain11 = max(0, 88-radw2)*bfffpain8
269 . * bfffpain8 = max(0, BSIsoma - 13)
270 . cap gen BSIsomasq = BSIsoma^2

271 . summ bfffpain8 if gender==2   // cutpoints could be  6.7

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   bfffpain8 |        363    2.614325     4.19023         0         22

272 . centile bfffpain8 if gender==2, centile(33 67)   // cutpoint is 2

                                                    -- Binom. Interp. --
    Variable |      Obs  Percentile      Centile        [95% Conf. Interval]
-------------+-------------------------------------------------------------
   bfffpain8 |      363         33            0               0           0
             |                  67            2               2           3

273 .
274 . cap gen lowbfpain8 = avgcumdosew2 if gender==2 & bfffpain8 <=2

275 . cap gen hibfpain8 = avgcumdosew2 if gender==2 & bfffpain8 > 8 & bfffpain8 <
    > .

276 . twoway lfit WHPpain lowbfpain8 || lfit WHPpain hibfpain8, ///
    >   ti(Dose by bfffpain8 female wave 2 effect on WHPpain) ///
    >   xti(Average cumulative dose of {superscript:137}CS) ///
    >   yti(WHPpain subscale score)  caption(bfffpain8 is condxly rescalled BSIsom
    > a) ///
    >   note(bfffpain8 = max(0, BSIsoma -13))  ///
    >   legend(label(1 low bfffpain8:le 67%) label(2 hipain bfffpain8:gt 67%))
```

```
277 . gr save fbfpn8Xd2.gph, replace
    (file fbfpn8Xd2.gph saved)

278 . gr export fbfpn8Xd2.eps, replace
    (file fbfpn8Xd2.eps written in EPS format)

279 .
280 . * test of regular covariates
281 . regress WHPpain BSIsoma BSIsomasq havmil CSprbslv radw2 if gender==2
```

Source	SS	df	MS		
Model	**73981.0465**	**5**	**14796.2093**	Number of obs =	**361**
Residual	**105813.389**	**355**	**298.065885**	F(5, 355) =	**49.64**
Total	**179794.436**	**360**	**499.428988**	Prob > F =	**0.0000**
				R-squared =	**0.4115**
				Adj R-squared =	**0.4032**
				Root MSE =	**17.265**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
BSIsoma	**3.290912**	**.7240937**	**4.54**	**0.000**	**1.86686**	**4.714965**
BSIsomasq	**-.0235906**	**.0213774**	**-1.10**	**0.271**	**-.065633**	**.0184517**
havmil	**-.0017875**	**.0040368**	**-0.44**	**0.658**	**-.0097265**	**.0061515**
CSprbslv	**-.175024**	**.1827096**	**-0.96**	**0.339**	**-.5343533**	**.1843053**
radw2	**-.0191378**	**.0290146**	**-0.66**	**0.510**	**-.0761999**	**.0379243**
_cons	**-16.68853**	**6.979027**	**-2.39**	**0.017**	**-30.41397**	**-2.963096**

```
282 . * testing component alternatives
283 . sw, pr(.1):regress WHPpain BSIsoma CSprbslv bfffpain8 radw2 bfffpain15 havmi
    > lsq avgcumdosew2
                      begin with full model
    p = 0.5848 >= 0.1000  removing havmilsq
    p = 0.2974 >= 0.1000  removing bfffpain15
```

Source	SS	df	MS		
Model	**103503.04**	**5**	**20700.608**	Number of obs =	**692**
Residual	**177944.251**	**686**	**259.393951**	F(5, 686) =	**79.80**
Total	**281447.291**	**691**	**407.304328**	Prob > F =	**0.0000**
				R-squared =	**0.3678**
				Adj R-squared =	**0.3631**
				Root MSE =	**16.106**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
BSIsoma	**2.566263**	**.2999813**	**8.55**	**0.000**	**1.977271**	**3.155255**
CSprbslv	**-.3915494**	**.1255617**	**-3.12**	**0.002**	**-.6380808**	**-.145018**
bfffpain8	**-.6982502**	**.4229211**	**-1.65**	**0.099**	**-1.528625**	**.132125**
radw2	**-.0335089**	**.0197789**	**-1.69**	**0.091**	**-.0723433**	**.0053255**
avgcumdosew2	**1.233609**	**.3656445**	**3.37**	**0.001**	**.515692**	**1.951525**
_cons	**-6.965172**	**4.467004**	**-1.56**	**0.119**	**-15.73581**	**1.805468**

```
284 .
285 . *------------ Mediators for wave 2 female Pain analysis
286 .
287 . scalar FemPainW2Med = "age"

288 . scalar numMedFw2 = 1

289 . // age is possible mediator at wave1 for female Pain
290 .
291 . sem (avgcumdosew2->age)(age->whppain) if gender==2, nocapslatent

    Endogenous variables

    Observed:  age whppain

    Exogenous variables

    Observed:  avgcumdosew2

    Fitting target model:

    Iteration 0:   log likelihood = -3650.6934
    Iteration 1:   log likelihood = -3650.6934

    Structural equation model                       Number of obs      =       363
    Estimation method  = ml
    Log likelihood     = -3650.6934
```

```
─────────────────────┬──────────────────────────────────────────────────────────
> ─────
                     │                 OIM
                     │      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
─────────────────────┼──────────────────────────────────────────────────────────
> ─────
Structural           │
  age <-             │
    avgcumdosew2     │   1.502324   .4441722     3.38   0.001     .6317629    2.37
> 2886
           _cons     │   48.86944   .7303023    66.92   0.000     47.43808    50.3
> 0081
  ───────────────────┼──────────────────────────────────────────────────────────
> ─────
  whppain <-         │
             age     │   .7333239   .0909308     8.06   0.000     .5551028    .911
> 5451
           _cons     │   -18.8122   4.691527    -4.01   0.000    -28.00742   -9.61
> 6977
─────────────────────┼──────────────────────────────────────────────────────────
> ─────
Variance             │
           e.age     │    136.164   10.10704                      117.7281    157.
> 4869
       e.whppain     │    421.567   31.29164                      364.4891    487.
> 5832
─────────────────────┴──────────────────────────────────────────────────────────
> ─────
LR test of model vs. saturated: chi2(1)   =      3.09, Prob > chi2 = 0.0788

292 . sem (avgcumdosew2-> radhlw2)(radhlw2->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radhlw2 whppain

Exogenous variables

Observed:  avgcumdosew2

Fitting target model:

Iteration 0:   log likelihood = -4058.1465
Iteration 1:   log likelihood = -4058.1465
```

```
Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -4058.1465

------------------------------------------------------------------------------
             |                 OIM
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
Structural   |
  radhlw2 <- |
    avgcumdosew2 |   3.302288   1.280292     2.58   0.010     .7929628    5.81
> 1614
           _cons |   56.95167   2.105039    27.05   0.000     52.82587    61.0
> 7747
-------------+----------------------------------------------------------------
  whppain <- |
         radhlw2 |   .1254455    .033843     3.71   0.000     .0591145    .191
> 7764
           _cons |   10.49625   2.330286     4.50   0.000     5.928969    15.0
> 6352
-------------+----------------------------------------------------------------
Variance     |
       e.radhlw2 |   1131.299   83.97289                      978.1272    1308
> .457
       e.whppain |   478.9698   35.55247                      414.1198     553
> .975
------------------------------------------------------------------------------

LR test of model vs. saturated: chi2(1)   =      6.14, Prob > chi2 = 0.0132
```

```
293 . sem (avgcumdosew2-> educ3)(educ3-> whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  educ3 whppain

Exogenous variables

Observed:  avgcumdosew2

Fitting target model:
```

```
Iteration 0:   log likelihood = -2513.8181
Iteration 1:   log likelihood = -2513.8181

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -2513.8181

------------------------------------------------------------------------------
> ----
             |                 OIM
             |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-------------+----------------------------------------------------------------
> ----
Structural   |
  educ3 <-   |
    avgcumdosew2 |   .0154942   .0181684     0.85   0.394    -.0201153     .051
> 1037
           _cons |    .338741   .0298723    11.34   0.000     .2801923     .397
> 2897
-------------+----------------------------------------------------------------
> ----
  whppain <- |
           educ3 |   8.718987   2.406133     3.62   0.000     4.003054    13.4
> 3492
           _cons |   14.93711   1.428799    10.45   0.000     12.13671     17.
> 7375
-------------+----------------------------------------------------------------
> ----
Variance     |
         e.educ3 |   .2278218   .0169105                      .196976     .263
> 4981
       e.whppain |   479.7449   35.61001                       414.79     554.
> 8716
------------------------------------------------------------------------------
> ----
LR test of model vs. saturated: chi2(1)   =      7.82, Prob > chi2 = 0.0052
```

```
294 .
295 .
296 .
297 .
298 .
299 .
300 .
301 .
302 . matrix define H1p1FPnDosew2 = (hyp, pt, wv, dsigfw2, dsigtw2, numMainEffsigF
    > w2, numMainEffsigTw2, numModsigFw2, numModsigTw2,numbfsigfw2,numbfsigtw2, nu
    > mMedFw2)

303 . matrix  colnames H1p1FPnDosew2 = hypnum ptnum wv dsigfw2 dsigtw2 numMainEffs
    > igFw2 numMainEffsigTw2 numModFw2 numModTw2 numbfsigfw2 numbfsigtw2 numMedw2

304 . matrix  rownames H1p1FPnDosew2 = wave2

305 . matlist H1p1FPnDosew2

                 |    hypnum      ptnum         wv    dsigfw2    dsigtw2  numMain~
    > 2  numMain~2  numModFw2  numModTw2  numbfsi~2  numbfsi~2
    -------------+--------------------------------------------------------------
    > --------------------------------------------------------
           wave2 |         1          1          2          0          0
    > 8          5          2          3          9          0

                 |  numMedw2
    -------------+-----------
           wave2 |         1

306 .
307 .
308 .
309 .
310 . matrix define  H1p1FPnDose =  (H1p1FPnDosew1 \ H1p1FPnDosew2)

311 . matlist  H1p1FPnDose

                 |    hypnum      ptnum         wv    dsigfw1    dsigtw1  numMain~
    > 1  numMain~1  numModFw1  numModTw1  numbfsi~1  numbfsi~1
    -------------+--------------------------------------------------------------
    > --------------------------------------------------------
           wave1 |         1          1          1          0          3
    > 5          5          0          1          1          2
           wave2 |         1          1          2          0          0
    > 8          5          2          3          9          0
```

	numMedw1
wave1	**2**
wave2	**1**

```
312 .
313 .
314 .
315 .
316 .
317 .
318 . matrix define  FemaleWHPpainr2 = (FemaleWHPpainr2w1 \ FemaleWHPpainr2w2)

319 . matlist FemaleWHPpainr2
```

	FullBFR2a	TR2aBF	TR2aNoBF	NumBF	BFR2cha
wave1	**.4791464**	**.4667625**	**.2066858**	**4**	**.2600767**
wave2	**.5774594**	**.5804982**	**.5903048**	**9**	**-.0098066**

```
320 .
321 . //  wave 3 possible socio-demog covariates full Female model
322 . regress WHPpain age educ2-educ7 marrw21-marrw23 marrw25 childw2 ///
>   emplw22-emplw26 occ1w2-occ8w2 inc1w2-inc4w2 avgcumdosew3 if gender==2
```

Source	SS	df	MS		
Model	**54303.4641**	**30**	**1810.11547**	Number of obs =	**363**
Residual	**126143.399**	**332**	**379.949998**	F(30, 332) =	**4.76**
				Prob > F =	**0.0000**
Total	**180446.864**	**362**	**498.471999**	R-squared =	**0.3009**
				Adj R-squared =	**0.2378**
				Root MSE =	**19.492**

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	**.451312**	**.1262238**	**3.58**	**0.000**	**.2030127**	**.6996113**
educ2	**21.83169**	**20.66213**	**1.06**	**0.291**	**-18.8135**	**62.47689**
educ3	**16.47045**	**20.5768**	**0.80**	**0.424**	**-24.00689**	**56.94779**
educ4	**17.00998**	**20.94081**	**0.81**	**0.417**	**-24.18342**	**58.20339**
educ5	**10.34506**	**20.71968**	**0.50**	**0.618**	**-30.41335**	**51.10346**
educ6	**9.284717**	**20.61879**	**0.45**	**0.653**	**-31.27522**	**49.84466**
educ7	**-2.695125**	**24.85129**	**-0.11**	**0.914**	**-51.58098**	**46.19073**
marrw21	**-2.808585**	**6.559784**	**-0.43**	**0.669**	**-15.71257**	**10.0954**
marrw22	**6.263256**	**9.103134**	**0.69**	**0.492**	**-11.64384**	**24.17035**
marrw23	**-1.458947**	**5.441672**	**-0.27**	**0.789**	**-12.16345**	**9.245557**
marrw25	**.2516819**	**7.87482**	**0.03**	**0.975**	**-15.23915**	**15.74252**
childw2	**2.021102**	**1.633542**	**1.24**	**0.217**	**-1.192296**	**5.234499**
emplw22	**-.865502**	**8.673983**	**-0.10**	**0.921**	**-17.9284**	**16.19739**
emplw23	**1.585315**	**9.225663**	**0.17**	**0.864**	**-16.56281**	**19.73344**

emplw24	1.090386	21.51403	0.05	0.960	-41.23061	43.41138
emplw25	9.677531	10.1893	0.95	0.343	-10.36619	29.72125
emplw26	-.7871549	9.410992	-0.08	0.933	-19.29985	17.72554
occ1w2	22.02818	10.25385	2.15	0.032	1.85748	42.19888
occ2w2	23.43548	10.52232	2.23	0.027	2.736654	44.1343
occ3w2	34.68356	10.52971	3.29	0.001	13.97019	55.39692
occ4w2	28.65363	11.26933	2.54	0.011	6.485331	50.82193
occ5w2	23.89805	12.18719	1.96	0.051	-.0757981	47.87189
occ6w2	17.75189	12.18992	1.46	0.146	-6.22733	41.73112
occ7w2	17.04188	11.32591	1.50	0.133	-5.237707	39.32147
occ8w2	19.42365	11.30918	1.72	0.087	-2.823032	41.67034
inc1w2	-12.89156	10.42463	-1.24	0.217	-33.39823	7.615104
inc2w2	-18.08865	10.23402	-1.77	0.078	-38.22035	2.043046
inc3w2	-20.26125	10.30878	-1.97	0.050	-40.54002	.0175242
inc4w2	-26.12812	12.24258	-2.13	0.034	-50.21092	-2.045309
avgcumdosew3	.7617149	.6204869	1.23	0.220	-.4588666	1.982296
_cons	-24.90371	24.08813	-1.03	0.302	-72.28832	22.48089

```
323 .  // again we observe that avgcumdosew2 is not a significan main effect
324 .
325 .
326 . des WHPpain age educ2-educ7 marrw31-marrw33 marrw35 childw3 ///
    >   emplw32-emplw35 occ1w3-occ8w3 inc1w3-inc4w3 radhlw3 radchw3 ///
    >   radtlw3 havmil

              storage  display     value
variable name   type   format      label      variable label
------------------------------------------------------------------------------
WHPpain         double %9.0g                  Wtd Health Profile Pain Pt 1
                                                subscale
age             byte   %8.0g                * Respondent's age
educ2           byte   %8.0g                  educ==2. graduated high school
educ3           byte   %8.0g                  educ==3. technical degree
educ4           byte   %8.0g                  educ==4. did not finish
                                                college/bachelor's
educ5           byte   %8.0g                  educ==5. graduated
                                                college/bachelor's
educ6           byte   %8.0g                  educ==6. finished
                                                specialist/master's degree
educ7           byte   %8.0g                  educ==7. doctor of science/phd
marrw31         byte   %8.0g                  marrw3==1. single
marrw32         byte   %8.0g                  marrw3==2. cohabitating
marrw33         byte   %8.0g                  marrw3==3. married
marrw35         byte   %8.0g                  marrw3==5. divorced
childw3         byte   %8.0g                  number of children now
emplw32         byte   %8.0g                  emplw3==2. part time
emplw33         byte   %8.0g                  emplw3==4. retired
emplw34         byte   %8.0g                  emplw3==5. unemployed
```

emplw3	byte	%15.0g	LABI	**mode of employment now**
occ1w1	byte	%15.0g	LABJ	**profess executive administration in 1986**
occ2w1	byte	%15.0g	LABJ	**technical sales admin support in 1986**
occ3w1	byte	%15.0g	LABJ	**service occup protective services in 1986**
occ4w1	byte	%15.0g	LABJ	**precision prod mechan craft construction in 1986**
occ5w1	byte	%15.0g	LABJ	**factory laborer machinist transp cleaner in 1986**
occ6w1	byte	%15.0g	LABJ	**farming agricul forestry fishing trapping logging in 1986**
occ7w1	byte	%15.0g	LABJ	**homemaking or caregiving in 1986**
occ8w1	byte	%15.0g	LABJ	**student in 1986**
occ1w2	byte	%15.0g	LABJ	**profess executive administration in 1996**
occ2w2	byte	%15.0g	LABJ	**technical sales admin support in 1996**
occ3w2	byte	%15.0g	LABJ	**service occup protective services in 1996**
occ4w2	byte	%15.0g	LABJ	**precision prod mechan craft construction in 1996**
occ5w2	byte	%15.0g	LABJ	**factory laborer machinist transp cleaner in 1996**
occ6w2	byte	%15.0g	LABJ	**farming agricul forestry fishing trapping logging in 1996**
occ7w2	byte	%15.0g	LABJ	**homemaking caregiving in 1996**
occ8w2	byte	%15.0g	LABJ	**student in 1996**
occ1w3	byte	%15.0g	LABJ	**professional executive administration now**
occ2w3	byte	%15.0g	LABJ	**technical sales admin support now**
occ3w3	byte	%15.0g	LABJ	**service occup protective services now**
occ4w3	byte	%15.0g	LABJ	**precision prod mechan craft construction now**
occ5w3	byte	%15.0g	LABJ	**factory laborer machinist transp cleaner now**
occ6w3	byte	%15.0g	LABJ	**farming agricul forestry fishing trapping logging now**
occ7w3	byte	%15.0g	LABJ	**homemaking or caregiving now**
occ8w3	byte	%15.0g	LABJ	**student now**
inc1w1	byte	%15.0g	LABJ	**Income is not sufficient for basic neccessities in 1986**
inc2w1	byte	%15.0g	LABJ	**Income is just sufficient for basic neccessities in 1986**
inc3w1	byte	%15.0g	LABJ	**Income is sufficient for basics plus extra purchases/savings**

				in 1986
inc4w1	byte	%15.0g	LABJ	**Income allows to comfortably afford luxury items in 1986**
inc1w2	byte	%15.0g	LABJ	**Income is not sufficient for basic neccessities in 1996**
inc2w2	byte	%15.0g	LABJ	**Income is just sufficient for basic neccessities in 1996**
inc3w2	byte	%15.0g	LABJ	**Income is sufficient for basics plus extra purchases/savings in 1996**
inc4w2	byte	%15.0g	LABJ	**Income allows to comfortably afford luxury items in 1996**
inc1w3	byte	%15.0g	LABJ	**Income is not sufficient for basic neccessities NOW**
inc2w3	byte	%15.0g	LABJ	**Income is just sufficient for basic neccessities NOW**
inc3w3	byte	%15.0g	LABJ	**Income is sufficient for basics plus extra purchases/savings NOW**
inc4w3	byte	%15.0g	LABJ	**Income allows to comfortably afford luxury items NOW**
jsw1	byte	%8.0g		**Job satisfaction on a scale of 0-100% in 1986**
jsw2	byte	%8.0g		**Job satisfaction on a scale of 0-100% in 1996**
jsw3	byte	%8.0g		**Job satisfaction on a scale of 0-100% NOW**
deaw1	byte	%8.0g		**Total number of death experienced in time period 1986**
deaw2	byte	%8.0g		**Total number of death experienced in time period 1996**
deaw3	byte	%8.0g		**Total number of death experienced in time period 1996-NOW**
dvcew1	byte	%8.0g		**Total number of divorces experienced in time period 1976-1986**
dvcew2	byte	%8.0g		**Total number of divorces experienced in time period 1987-1996**
dvcew3	byte	%8.0g		**Total number of divorces experienced in time period 1996-NOW**
sepaw1	byte	%8.0g		**Total number of separations experienced in time period 1976-1986**
sepaw2	byte	%8.0g		**Total number of separations**

			experienced in time period 1987-1996
sepaw3	byte	%8.0g	**Total number of separations experienced in time period 1996-NOW**
accdw1	byte	%8.0g	**Total number of accidents experienced in time period 1976-1986**
accdw2	byte	%8.0g	**Total number of accidents experienced in time period 1987-1996**
accdw3	byte	%8.0g	**Total number of accidents experienced in time period 1996-NOW**
cataw1	byte	%8.0g	**Total number of disasters experienced in time period 1976-1986**
cataw2	byte	%8.0g	**Total number of disasters experienced in time period 1987-1996**
cataw3	byte	%8.0g	**Total number of disasters experienced in time period 1996-NOW**
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**
movew1	byte	%8.0g	**Total number of moves experienced in time period 1976-1986**
movew2	byte	%8.0g	**Total number of moves experienced in time period 1987-1996**
movew3	byte	%8.0g	**Total number of moves experienced in time period 1996-NOW**
shjobw1	byte	%8.0g	**Percentage of strains and hassles related to job in 1986**
shjobw2	byte	%8.0g	**Percentage of strains and hassles related to job in 1996**
shjobw3	byte	%8.0g	* **Percentage of strains and hassles related to job NOW**
shfamw1	byte	%8.0g	**Percentage of strains and hassles related to family in**

			1986
shfamw2	byte	%8.0g	**Percentage of strains and hassles related to family in 1996**
shfamw3	byte	%8.0g	**Percentage of strains and hassles related to family NOW**
shhlw1	byte	%8.0g	**Percentage of strains and hassles related to health in 1986**
shhlw2	byte	%8.0g	**Percentage of strains and hassles related to health in 1996**
shhlw3	byte	%8.0g	**Percentage of strains and hassles related to health NOW**
shfincw1	byte	%8.0g	**Percentage of strains and hassles related to finances in 1986**
shfincw2	byte	%8.0g	**Percentage of strains and hassles related to finances in 1996**
shfincw3	byte	%8.0g	**Percentage of strains and hassles related to finances NOW**
shhousw1	byte	%8.0g	**Percentage of strains and hassles related to housing in 1986**
shhousw2	byte	%8.0g	**Percentage of strains and hassles related to housing in 1996**
shhousw3	byte	%8.0g	**Percentage of strains and hassles related to housing NOW**
shrelaw1	byte	%8.0g	**Percentage of strains and hassles related to relationships in 1986**
shrelaw2	byte	%8.0g	**Percentage of strains and hassles related to relationships in 1996**
shrelaw3	byte	%8.0g	**Percentage of strains and hassles related to relationships NOW**
suprtw1	byte	%8.0g	**Level of support (in percent) from partner in 1986**
suprtw2	byte	%8.0g	**Level of support (in percent) from partner in 1996**
suprtw3	byte	%8.0g	**Level of support (in percent) from partner NOW**
sufamw1	byte	%8.0g	**Level of support (in percent) from family in 1986**
sufamw2	byte	%8.0g	**Level of support (in percent)**

				from family in 1996
sufamw3	byte	%8.0g		**Level of support (in percent) from family in NOW**
suchrw1	byte	%8.0g		**Level of support (in percent) from Chernobyl survivor benefits in 1986**
suchrw2	byte	%8.0g		**Level of support (in percent) from Chernobyl survivor benefits in 1996**
suchrw3	byte	%8.0g		**Level of support (in percent) from Chernobyl survivor benefits NOW**
phlthw1	byte	%8.0g		**level of general physical health in 1986**
phlthw2	byte	%8.0g		**level of general physical health in 1996**
phlthw3	byte	%8.0g		**level of general physical health now**
mhlthw1	byte	%8.0g		**level of general psychological/mental health in 1986**
mhlthw2	byte	%8.0g		**level of general psychological/mental health in 1996**
mhlthw3	byte	%8.0g		**level of general psychological/mental health now**
nil1w1	byte	%26.0g	ill862	**name of illness 1 in time period from 1977 to 1986**
nil2w1	byte	%26.0g	ill862	**name of illness 2 in time period from 1977 to 1986**
nil3w1	byte	%26.0g	ill862	**name of illness 3 in time period from 1977 to 1986**
nil4w1	byte	%26.0g	ill862	**name of illness 4 in time period from 1977 to 1986**
nil5w1	byte	%26.0g	ill862	**name of illness 5 in time period from 1977 to 1986**
nil6w1	byte	%26.0g	ill862	**name of illness 6 in time period from 1977 to 1986**
nil7w1	byte	%26.0g	ill862	**name of illness 7 in time period from 1977 to 1986**
nil8w1	byte	%26.0g	ill862	**name of illness 8 in time period from 1977 to 1986**
nil9w1	byte	%26.0g	ill862	**name of illness 9 in time period from 1977 to 1986**
nil10w1	byte	%26.0g	ill862	**name of illness 10 in time period from 1977 to 1986**
dil1w1	long	%d		**date of onset for illness 1 in time period from 1977 to 1986**

dil2w1	int	%d		**date of onset for illness 2 in time period from 1977 to 1986**
dil3w1	int	%d		**date of onset for illness 3 in time period from 1977 to 1986**
dil4w1	int	%d		**date of onset for illness 4 in time period from 1977 to 1986**
dil5w1	int	%d		**date of onset for illness 5 in time period from 1977 to 1986**
dil6w1	byte	%d		**date of onset for illness 6 in time period from 1977 to 1986**
dil7w1	byte	%d		**date of onset for illness 7 in time period from 1977 to 1986**
dil8w1	byte	%d		**date of onset for illness 8 in time period from 1977 to 1986**
dil9w1	byte	%d		**date of onset for illness 9 in time period from 1977 to 1986**
dil10w1	byte	%d		**date of onset for illness 10 in time period from 1977 to 1986**
dril1w1	double	%9.0g		**duration of illness 1 in years in time period from 1977 to 1986**
dril2w1	double	%9.0g		**duration of illness 2 in years in time period from 1977 to 1986**
dril3w1	byte	%8.0g		**duration of illness 3 in years in time period from 1977 to 1986**
dril4w1	byte	%8.0g		**duration of illness 4 in years in time period from 1977 to 1986**
dril5w1	byte	%8.0g		**duration of illness 5 in years in time period from 1977 to 1986**
dril6w1	byte	%8.0g		**duration of illness 6 in years in time period from 1977 to 1986**
dril7w1	byte	%8.0g		**duration of illness 7 in years in time period from 1977 to 1986**
dril8w1	byte	%8.0g		**duration of illness 8 in years in time period from 1977 to 1986**
dril9w1	byte	%8.0g		**duration of illness 9 in years in time period from 1977 to 1986**
dril10w1	byte	%8.0g		**duration of illness 10 in years in time period from 1977 to 1986**
pil1w1	byte	%15.0g	LABC	**persistence of illness 1 in time**

				period fro 1977 to 1986
pil2w1	byte	%15.0g	LABC	**persistence of illness 2 in time period fro 1977 to 1986**
pil3w1	byte	%15.0g	LABC	**persistence of illness 3 in time period fro 1977 to 1986**
pil4w1	byte	%15.0g	LABC	**persistence of illness 4 in time period fro 1977 to 1986**
pil5w1	byte	%15.0g	LABC	**persistence of illness 5 in time period fro 1977 to 1986**
pil6w1	byte	%15.0g	LABC	**persistence of illness 6 in time period fro 1977 to 1986**
pil7w1	byte	%15.0g	LABC	**persistence of illness 7 in time period fro 1977 to 1986**
pil8w1	byte	%15.0g	LABC	**persistence of illness 8 in time period fro 1977 to 1986**
pil9w1	byte	%15.0g	LABC	**persistence of illness 9 in time period fro 1977 to 1986**
pil10w1	byte	%15.0g	LABC	**persistence of illness 10 in time period fro 1977 to 1986**
nil1w2	byte	%26.0g	ill862	**name of illness 1 in time period from 1987-1996**
nil2w2	byte	%26.0g	ill862	**name of illness 2 in time period from 1987-1996**
nil3w2	byte	%26.0g	ill862	**name of illness 3 in time period from 1987-1996**
nil4w2	byte	%26.0g	ill862	**name of illness 4 in time period from 1987-1996**
nil5w2	byte	%26.0g	ill862	**name of illness 5 in time period from 1987-1996**
nil6w2	byte	%26.0g	ill862	**name of illness 6 in time period from 1987-1996**
nil7w2	byte	%26.0g	ill862	**name of illness 7 in time period from 1987-1996**
nil8w2	byte	%26.0g	ill862	**name of illness 8 in time period from 1987-1996**
nil9w2	byte	%26.0g	ill862	**name of illness 9 in time period from 1987-1996**
nil10w2	byte	%26.0g	ill862	**name of illness 10 in time period from 1987-1996**
dil1w2	long	%d		**date of onset of illness 1 in time period from 1987-1996**
dil2w2	long	%d		**date of onset of illness 2 in time period from 1987-1996**
dil3w2	int	%d		**date of onset of illness 3 in time period from 1987-1996**
dil4w2	int	%d		**date of onset of illness 4 in time period from 1987-1996**
dil5w2	int	%d		**date of onset of illness 5 in time period from 1987-1996**

dil6w2	int	%d		**date of onset of illness 6 in time period from 1987-1996**
dil7w2	int	%d		**date of onset of illness 7 in time period from 1987-1996**
dil8w2	byte	%d		**date of onset of illness 8 in time period from 1987-1996**
dil9w2	byte	%d		**date of onset of illness 9 in time period from 1987-1996**
dil10w2	byte	%d		**date of onset of illness 10 in time period from 1987-1996**
dril1w2	double	%9.0g		**duration of illness 1 in years in time period from 1987 to 1996**
dril2w2	byte	%9.0g		**duration of illness 2 in years in time period from 1987 to 1996**
dril3w2	byte	%8.0g		**duration of illness 3 in years in time period from 1987 to 1996**
dril4w2	byte	%8.0g		**duration of illness 4 in years in time period from 1987 to 1996**
dril5w2	byte	%8.0g		**duration of illness 5 in years in time period from 1987 to 1996**
dril6w2	byte	%8.0g		**duration of illness 6 in years in time period from 1987 to 1996**
dril7w2	byte	%8.0g		**duration of illness 7 in years in time period from 1987 to 1996**
dril8w2	byte	%8.0g		**duration of illness 8 in years in time period from 1987 to 1996**
dril9w2	byte	%8.0g		**duration of illness 9 in years in time period from 1987 to 1996**
dril10w2	byte	%8.0g		**duration of illness 10 in years in time period from 1987 to 1996**
pil1w2	byte	%15.0g	LABC	**persistence of illness 1 in time period from 1987 to 1996**
pil2w2	byte	%15.0g	LABC	**persistence of illness 2 in time period from 1987 to 1996**
pil3w2	byte	%15.0g	LABC	**persistence of illness 3 in time period from 1987 to 1996**
pil4w2	byte	%15.0g	LABC	**persistence of illness 4 in time period from 1987 to 1996**
pil5w2	byte	%15.0g	LABC	**persistence of illness 5 in time**

				period from 1987 to 1996
pil6w2	byte	%15.0g	LABC	**persistence of illness 6 in time period from 1987 to 1996**
pil7w2	byte	%15.0g	LABC	**persistence of illness 7 in time period from 1987 to 1996**
pil8w2	byte	%15.0g	LABC	**persistence of illness 8 in time period from 1987 to 1996**
pil9w2	byte	%15.0g	LABC	**persistence of illness 9 in time period from 1987 to 1996**
pil10w2	byte	%15.0g	LABC	**persistence of illness 10 in time period from 1987 to 1996**
nil1w3	byte	%26.0g	ill862	**name of illness 1 in time period now**
nil2w3	byte	%26.0g	ill862	**name of illness 2 in time period now**
nil3w3	byte	%26.0g	ill862	**name of illness 3 in time period now**
nil4w3	byte	%26.0g	ill862	**name of illness 4 in time period now**
nil5w3	byte	%26.0g	ill862	**name of illness 5 in time period now**
nil6w3	byte	%26.0g	ill862	**name of illness 6 in time period now**
nil7w3	byte	%26.0g	ill862	**name of illness 7 in time period now**
nil8w3	byte	%26.0g	ill862	**name of illness 8 in time period now**
nil9w3	byte	%26.0g	ill862	**name of illness 9 in time period now**
nil10w3	byte	%26.0g	ill862	**name of illness 10 in time period now**
dil1w3	long	%d		**date of onset of illness 1 now**
dil2w3	int	%d		**date of onset of illness 2 now**
dil3w3	long	%d		**date of onset of illness 3 now**
dil4w3	int	%d		**date of onset of illness 4 now**
dil5w3	int	%d		**date of onset of illness 5 now**
dil6w3	int	%d		**date of onset of illness 6 now**
dil7w3	int	%d		**date of onset of illness 7 now**
dil8w3	int	%d		**date of onset of illness 8 now**
dil9w3	int	%d		**date of onset of illness 9 now**
dil10w3	int	%d		**date of onset of illness 10 now**
dril1w3	byte	%8.0g		**duration of illness 1 now (in years)**
dril2w3	byte	%8.0g		**duration of illness 2 now (in years)**
dril3w3	byte	%8.0g		**duration of illness 3 now (in years)**
dril4w3	byte	%8.0g		**duration of illness 4 now (in years)**

dril5w3	byte	%8.0g		**duration of illness 5 now (in years)**
dril6w3	byte	%8.0g		**duration of illness 6 now (in years)**
dril7w3	byte	%8.0g		**duration of illness 7 now (in years)**
dril8w3	byte	%8.0g		**duration of illness 8 now (in years)**
dril9w3	byte	%8.0g		**duration of illness 9 now (in years)**
dril10w3	byte	%8.0g		**duration of illness 10 now (in years)**
pil1w3	byte	%15.0g	LABC	**persistence of illness 1 now**
pil2w3	byte	%15.0g	LABC	**persistence of illness 2 now**
pil3w3	byte	%15.0g	LABC	**persistence of illness 3 now**
pil4w3	byte	%15.0g	LABC	**persistence of illness 4 now**
pil5w3	byte	%15.0g	LABC	**persistence of illness 5 now**
pil6w3	byte	%15.0g	LABC	**persistence of illness 6 now**
pil7w3	byte	%15.0g	LABC	**persistence of illness 7 now**
pil8w3	byte	%15.0g	LABC	**persistence of illness 8 now**
pil9w3	byte	%15.0g	LABC	**persistence of illness 9 now**
pil10w3	byte	%15.0g	LABC	**persistence of illness 10 now**
aborw1	byte	%8.0g		**number of pregnancy terminations in time period 1976-1986**
aborw2	byte	%8.0g		**number of pregnancy terminations in time period 1987-1996**
aborw3	byte	%8.0g		**number of pregnancy terminations in time period 1997-now**
contw1	byte	%15.0g	LABC	**use of any contraception method in 1976-1986**
contw2	byte	%15.0g	LABC	**use of any contraception method in 1987-1996**
contw3	byte	%15.0g	LABC	**use of any contraception method in 1997-now**
ncontw1	byte	%15.0g	LABC	**use of natural contraception in 1976-1986**
ncontw2	byte	%15.0g	LABC	**use of natural contraception in 1987-1996**
ncontw3	byte	%15.0g	LABC	**use of natural contraception in 1997-now**
smokw1	int	%8.0g		**number of cigarettes per week in 1976-1986**
smokw2	int	%8.0g		**number of cigarettes per week in 1987-1996**
smokw3	int	%8.0g		**number of cigarettes per week in 1997-now**
beerw1	byte	%8.0g		**nuber of beers per week in 1976-1986**
beerw2	byte	%8.0g		**nuber of beers per week in**

			1987-1996
beerw3	byte	%8.0g	**nuber of beers per week in 1997-now**
liqw1	byte	%8.0g	**number of spirits per week in 1976-1986**
liqw2	byte	%8.0g	**number of spirits per week in 1987-1996**
liqw3	byte	%8.0g	**number of spirits per week in 1997-now**
pillw1	byte	%8.0g	**number of pills for pain per week in 1976-1986**
pillw2	byte	%8.0g	**number of pills for pain per week in 1987-1996**
pillw3	byte	%8.0g	**number of pills for pain per week in 1997-now**
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**
hospw1	int	%8.0g	* **number of days per year as a patient in a clinic for medical condition in 1976-**
hospw2	int	%8.0g	* **number of days per year as a patient in a clinic for medical condition in 1987-**
hospw3	int	%8.0g	* **number of days per year as a patient in a clinic for medical condition in 1997-**
vishphw1	byte	%8.0g	**number of visits per year to a homeopath for a physical condition in 1976-1986**
vishphw2	byte	%8.0g	**number of visits per year to a homeopath for a physical condition in 1987-1996**
vishphw3	byte	%8.0g	**number of visits per year to a homeopath for a physical condition in 1997-now**
mhoutw1	byte	%8.0g	**number of medical visits for a mental health condition per year 1976-1986**
mhoutw2	byte	%8.0g	**number of medical visits for a mental health condition per year 1987-1996**
mhoutw3	byte	%8.0g	**number of medical visits for a**

			mental health condition per year 1997-now
mhinw1	byte	%8.0g	* number of days per year as a patient in a clinic for a mental health in 1976-19
mhinw2	int	%8.0g	* number of days per year as a patient in a clinic for a mental health in 1987-19
mhinw3	byte	%8.0g	* number of days per year as a patient in a clinic for a mental health in 1997-no
vishpw1	byte	%8.0g	* number of visits per year to a homeopath for a mental health condition in 1976-1
vishpw2	byte	%8.0g	* number of visits per year to a homeopath for a mental health condition in 1987-1
vishpw3	byte	%8.0g	* number of visits per year to a homeopath for a mental health condition in 1997-n
goferw1	byte	%8.0g	level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g	level of fear in percent from going outdoors in 1987-1996
goferw3	byte	%8.0g	level of fear in percent from going outdoors in 1997-now
fdferw1	byte	%8.0g	* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g	* level of fear in percent from consuming foods contaminated with radiation in 198
fdferw3	byte	%8.0g	* level of fear in percent from consuming foods contaminated with radiation in 199
trgovw1	byte	%8.0g	level of trust in government reports about chornobyl in time period 1976-1986
trgovw2	byte	%8.0g	level of trust in government reports about chornobyl in time period 1987-1996
trgovw3	byte	%8.0g	level of trust in government reports about chornobyl in time period 1997-now
trrepw1	byte	%8.0g	* level of trust in medical/scientific reports about chornobyl in time period 197
trrepw2	byte	%8.0g	* level of trust in

					medical/scientific reports about chornobyl in time period 198
trrepw3	byte	%8.0g		*	level of trust in medical/scientific reports about chornobyl in time period 1997
townacc	str23	%23s		*	village/ town/ city at time of accident
raiacc	str23	%23s			raion at the time of Chornobyl accident
latacc	byte	%15.0g	LABF		latitude of residence at time of accident
lonacc	byte	%12.0g	lon		longitude of residence at time of accident
latdacc	byte	%8.0g			latitude (in degrees) at time of accident
londacc	int	%8.0g			longitude (in degrees) at time of accident
latmacc	byte	%8.0g			latitude (in minutes) at time of accident
lonmacc	byte	%8.0g			longitude (in minutes) at time of accident
oblacc	byte	%31.0g	LABG		oblast of residence at time of accident
kmacc	int	%8.0g			distance of residence from the chornobyl plant (in kilometers)
townwork	str23	%23s			village/town/ city of w/s at time of accident
rawork	str23	%23s			raion of w/s at time of accident
latwork	byte	%15.0g	LABF		latitude of place of work/study at time of accident
lonwork	byte	%12.0g	lon		longitude of place of work/study at time of accident
latdwork	byte	%8.0g			latitude (in degrees) of place of work/study at time of accident
londwork	int	%8.0g			longitude (in degrees) of place of work/study at time of accident
latmwork	byte	%8.0g			latitude (in minutes) of place of work/study at time of accident
lonmwork	byte	%8.0g			longitude (in minutes) of place of work/study at time of accident
oblwork	byte	%31.0g	LABG		oblast of work /study at the time of accident

kmwork	int	%8.0g		* **approximately how far away was your w/s from the chornobyl plant (in kilometers)**
injself	byte	%15.0g	LABC	**were you injured as a result of the chornobyl accident in 1986?**
injselfr	byte	%9.0g	dum	**Were u injured because of Chornobyl acc in 1986?**
injoth	byte	%15.0g	LABC	**was anyone you know injured as a result of the chornobyl accident?**
injothr	byte	%9.0g	inj	**Was anyone u know injured by Chornobyl accident?**
evacself	byte	%15.0g	LABC	**were you evacuated as a result of the chornobyl accident and its aftermath?**
evacselfr	byte	%9.0g	dum	**Were u evacuated because of Chornobyl accident in 1986?**
relself	byte	%15.0g	LABC	**were you relocated?**
relselfr	byte	%9.0g	dum	**Were u relocated because of Chornobyl accident?**
townrel	str32	%32s		**village/ town/ city of relocated residence**
rarel	str32	%32s		**raion of relocated residence**
latrel	byte	%15.0g	LABF	**latitude of relocated residence**
lonrel	byte	%12.0g	lon	**longitude of relocated residence**
latdrel	byte	%8.0g		**latitude in degrees of relocated residence**
londrel	byte	%8.0g		**longitude in degrees of relocated residence**
latmrel	int	%8.0g		**latitude in minutes of relocated residence**
lonmrel	int	%8.0g		**longitude in minutes of relocated residence**
defnw1	byte	%8.0g		* **consider hazardous (in percent) - deficiencies in essential nutrition in 1986**
defnw2	byte	%8.0g		* **consider hazardous (in percent) - deficiencies in essential nutrition in 1996**
defnw3	byte	%8.0g		* **consider hazardous (in percent) - deficiencies in essential nutrition NOW**
efradw1	byte	%8.0g		**consider hazardous (in percent) - effects of radiation in 1986**
efradw2	byte	%8.0g		**consider hazardous (in percent) - effects of radiation in 1996**
efradw3	byte	%8.0g		**consider hazardous (in percent) - effects of radiation NOW**

ecprw1	byte	%8.0g	**consider hazardous (in percent) - economic problems in 1986**
ecprw2	byte	%8.0g	**consider hazardous (in percent) - economic problems in 1996**
ecprw3	byte	%8.0g	**consider hazardous (in percent) - economic problems, NOW**
polprw1	byte	%8.0g	**consider hazardous (in percent) - political problems in 1986**
polprw2	byte	%8.0g	**consider hazardous (in percent) - political problems in 1996**
polprw3	byte	%8.0g	**consider hazardous (in percent) - political problems NOW**
airw1	byte	%8.0g	**consider hazardous (in percent) - air and water pollution in 1986**
airw2	byte	%8.0g	**consider hazardous (in percent) - air and water pollution in 1996**
airw3	byte	%8.0g	**consider hazardous (in percent) - air and water pollution NOW**
radw1	byte	%8.0g	**believed % of the radioactively contaminated area in 1986**
radw2	byte	%8.0g	**believed % of the radioactively contaminated area in 1996**
radw3	byte	%8.0g	**believed % of the radioactively contaminated area NOW**
radchw1	byte	%8.0g	**believed % of polution related to chornobyl in 1986**
radchw2	byte	%8.0g	**believed % of polution related to chornobyl in 1996**
radchw3	byte	%8.0g	**believed % of polution related to chornobyl NOW**
radtlw1	byte	%8.0g	**believed % of cumulative radiation exposed to in a lifetime in 1986**
radtlw2	byte	%8.0g	**believed % of cumulative radiation exposed to in a lifetime in 1996**
radtlw3	byte	%8.0g	**believed % of cumulative radiation exposed to in a lifetime NOW**
radhlw1	byte	%8.0g	**Self-perceived Chornobyl health threat in wave 1**
radhlw2	byte	%8.0g	**how much believed personal health is affected by radiation in 1996**
radhlw3	byte	%8.0g	**Self-perceived Chornobyl health threat in wave 3**
radhlwc1	byte	%9.0g	**Collapsed version of radhlw1**

					with a cut point of 0-49=0 and 50-100=1
radhlwc2	byte	%9.0g			Collapsed version of radhlw2 with a cut point of 0-49=0 and 50-100=1
radhlwc3	byte	%9.0g			Collapsed version of radhlw1 with a cut point of 0-49=0 and 50-100=1
radfmw1	byte	%8.0g			how much believed family health is affected by radiation in 1986
radfmw2	byte	%8.0g			how much believed family health is affected by radiation in 1996
radfmw3	byte	%8.0g			Observed
source	byte	%31.0g	q85	*	what was your initial source of information about the chornobyl plant accident?
dafter	int	%8.0g		*	how many days lapsed after Chornobyl accident before you heard about the acciden
dauthw1	byte	%8.0g			level of danger by authorities (in percent) in 1986
dauthw2	byte	%8.0g			level of danger by authorities (in percent) in 1996
dauthw3	byte	%8.0g			level of danger by authorities (in percent) NOW
medw1	byte	%8.0g			level of danger by general media (in percent) in 1986
medw2	byte	%8.0g			level of danger by general media (in percent) in 1996
medw3	byte	%8.0g			level of danger by general media (in percent) NOW
neiw1	byte	%8.0g			level of danger by neighbors (in percent) in 1986
neiw2	byte	%8.0g			level of danger by neighbors (in percent) in 1996
neiw3	byte	%8.0g			level of danger by neighbors (in percent) NOW
toxic	byte	%8.0g			all radioactive materials remain toxic for thousands of years (% of agreement)
repair	byte	%8.0g		*	body has capability to repair tissue damage caused by exposure (% of agreement)
skin	byte	%8.0g			a suntan is caused by radiating damage to the skin (% of agreement)
near	byte	%8.0g		*	radiation from a nuclear plant

			site is more concentrated near the plant (% of ag
cloud	byte	%8.0g	* radioactive fallout is only harmful when visible (% of agreement)
world	byte	%8.0g	* the chornobyl accident has affected people around the world (% of agreement)
healthef	byte	%8.0g	* a person exposed to any radiation likely to suffer from (% of agreement)
carcin	byte	%8.0g	* a person exposed to carcinogen is likely to get cancer (% of agreement)
woman	byte	%8.0g	* pregnant exposed to radiation likely to give birth to children with deffects (%
saferad	byte	%8.0g	there is no safe level of radiation (% of agreement)
goodrad	byte	%8.0g	small doses can actually improve one's health (% of agreement)
kzchorn	byte	%8.0g	* in k/z most cases of cancer in humans are known to be caused by radiation from
kzunder	byte	%8.0g	people in k/z underestimate the risks assoicated with radiation (% of agreement)
chsize	byte	%8.0g	* the radioactive fallout from chornobyl affected more people than the radioactive
icdxcnt	byte	%9.0g	count of icdx illnesses
icddx1	str32	%10s	icd ñ 10 code illness 1
icddx2	str32	%10s	icd ñ 10 code illness 2
icddx3	str32	%10s	icd ñ 10 code illness 3
icddx4	str32	%10s	icd ñ 10 code illness 4
icddx5	str32	%10s	icd ñ 10 code illness 5
icddx6	str32	%10s	icd ñ 10 code illness 6
icddx7	str32	%10s	icd ñ 10 code illness 7
icddx8	str32	%10s	icd ñ 10 code illness 8
icddx9	str32	%10s	icd ñ 10 code illness 9
icddx10	str32	%10s	icd ñ 10 code illness 10
icddx11	str32	%10s	icd ñ 10 code illness 11
icddx12	str32	%10s	icd ñ 10 code illness 12
dxdat_1	long	%d	date of original onset (mm/dd/yyyy) illness 1
dxdat_2	int	%d	date of original onset (mm/dd/yyyy) illness 2
dxdat_3	long	%d	date of original onset (mm/dd/yyyy) illness 3

dxdat_4	long	%d	**date of original onset (mm/dd/yyyy) illness 4**
dxdat_5	int	%d	**date of original onset (mm/dd/yyyy) illness 5**
dxdat_6	int	%d	**date of original onset (mm/dd/yyyy) illness 6**
dxdat_7	int	%d	**date of original onset (mm/dd/yyyy) illness 7**
dxdat_8	int	%d	**date of original onset (mm/dd/yyyy) illness 8**
dxdat_9	int	%d	**date of original onset (mm/dd/yyyy) illness 9**
dxdat_10	int	%d	**date of original onset (mm/dd/yyyy) illness 10**
dxdat_11	int	%d	**date of original onset (mm/dd/yyyy) illness 11**
dxdat_12	int	%d	**date of original onset (mm/dd/yyyy) illness 12**
dxnum1	byte	%8.0g	**number of years the desease persisted illness 1**
dxnum2	byte	%8.0g	**number of years the desease persisted illness 2**
dxnum3	byte	%8.0g	**number of years the desease persisted illness 3**
dxnum4	byte	%8.0g	**number of years the desease persisted illness 4**
dxnum5	byte	%8.0g	**number of years the desease persisted illness 5**
dxnum6	byte	%8.0g	**number of years the desease persisted illness 6**
dxnum7	byte	%8.0g	**number of years the desease persisted illness 7**
dxnum8	byte	%8.0g	**number of years the desease persisted illness 8**
dxnum9	byte	%8.0g	**number of years the desease persisted illness 9**
dxnum10	byte	%8.0g	**number of years the desease persisted illness 10**
dxnum11	byte	%8.0g	**number of years the desease persisted illness 11**
dxnum12	byte	%8.0g	**number of years the desease persisted illness 12**
deprl1980	byte	%8.0g	* **level of depression (in percentage) in 1980**
deprl1981	byte	%8.0g	**level of depression (in percentage) in 1981**
deprl1982	byte	%8.0g	**level of depression (in percentage) in 1982**
deprl1983	byte	%8.0g	**level of depression (in**

			percentage) in 1983
deprl1984	byte	%8.0g	**level of depression (in percentage) in 1984**
deprl1985	byte	%8.0g	**level of depression (in percentage) in 1985**
deprl1986	byte	%8.0g	**level of depression (in percentage) in 1986**
deprl1987	byte	%8.0g	**level of depression (in percentage) in 1987**
deprl1988	byte	%8.0g	**level of depression (in percentage) in 1988**
deprl1989	byte	%8.0g	**level of depression (in percentage) in 1989**
deprl1990	byte	%8.0g	**level of depression (in percentage) in 1990**
deprl1991	byte	%8.0g	**level of depression (in percentage) in 1991**
deprl1992	byte	%8.0g	**level of depression (in percentage) in 1992**
deprl1993	byte	%8.0g	**level of depression (in percentage) in 1993**
deprl1994	byte	%8.0g	**level of depression (in percentage) in 1994**
deprl1995	byte	%8.0g	**level of depression (in percentage) in 1995**
deprl1996	byte	%8.0g	**level of depression (in percentage) in 1996**
deprl1997	byte	%8.0g	**level of depression (in percentage) in 1997**
deprl1998	byte	%8.0g	**level of depression (in percentage) in 1998**
deprl1999	byte	%8.0g	**level of depression (in percentage) in 1999**
deprl2000	byte	%8.0g	**level of depression (in percentage) in 2000**
deprl2001	byte	%8.0g	**level of depression (in percentage) in 2001**
deprl2002	byte	%8.0g	**level of depression (in percentage) in 2002**
deprl2003	byte	%8.0g	**level of depression (in percentage) in 2003**
deprl2004	byte	%8.0g	**level of depression (in percentage) in 2004**
deprl2005	byte	%8.0g	**level of depression (in percentage) in 2005**
deprl2006	byte	%8.0g	**level of depression (in percentage) in 2006**
deprl2007	byte	%8.0g	**level of depression (in percentage) in 2007**

deprl2008	byte	%8.0g	**level of depression (in percentage) in 2008**
deprl2009	byte	%8.0g	**level of depression (in percentage) in 2009**
deprl2010	byte	%8.0g	**level of depression (in percentage) in 2010**
anxl1980	byte	%8.0g	**level of anxiety (in percentage) in 1980**
anxl1981	byte	%8.0g	**level of anxiety (in percentage) in 1981**
anxl1982	byte	%8.0g	**level of anxiety (in percentage) in 1982**
anxl1983	byte	%8.0g	**level of anxiety (in percentage) in 1983**
anxl1984	byte	%8.0g	**level of anxiety (in percentage) in 1984**
anxl1985	byte	%8.0g	**level of anxiety (in percentage) in 1985**
anxl1986	byte	%8.0g	**level of anxiety (in percentage) in 1986**
anxl1987	byte	%8.0g	**level of anxiety (in percentage) in 1987**
anxl1988	byte	%8.0g	**level of anxiety (in percentage) in 1988**
anxl1989	byte	%8.0g	**level of anxiety (in percentage) in 1989**
anxl1990	byte	%8.0g	**level of anxiety (in percentage) in 1990**
anxl1991	byte	%8.0g	**level of anxiety (in percentage) in 1991**
anxl1992	byte	%8.0g	**level of anxiety (in percentage) in 1992**
anxl1993	byte	%8.0g	**level of anxiety (in percentage) in 1993**
anxl1994	byte	%8.0g	**level of anxiety (in percentage) in 1994**
anxl1995	byte	%8.0g	**level of anxiety (in percentage) in 1995**
anxl1996	byte	%8.0g	**level of anxiety (in percentage) in 1996**
anxl1997	byte	%8.0g	**level of anxiety (in percentage) in 1997**
anxl1998	byte	%8.0g	**level of anxiety (in percentage) in 1998**
anxl1999	byte	%8.0g	**level of anxiety (in percentage) in 1999**
anxl2000	byte	%8.0g	**level of anxiety (in percentage) in 2000**
anxl2001	byte	%8.0g	**level of anxiety (in percentage)**

			in 2001
anxl2002	byte	%8.0g	**level of anxiety (in percentage) in 2002**
anxl2003	byte	%8.0g	**level of anxiety (in percentage) in 2003**
anxl2004	byte	%8.0g	**level of anxiety (in percentage) in 2004**
anxl2005	byte	%8.0g	**level of anxiety (in percentage) in 2005**
anxl2006	byte	%8.0g	**level of anxiety (in percentage) in 2006**
anxl2007	byte	%8.0g	**level of anxiety (in percentage) in 2007**
anxl2008	byte	%8.0g	**level of anxiety (in percentage) in 2008**
anxl2009	byte	%8.0g	**level of anxiety (in percentage) in 2009**
anxl2010	byte	%8.0g	**level of anxiety (in percentage) in 2010**
pdisl1980	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1980**
pdisl1981	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1981**
pdisl1982	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1982**
pdisl1983	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1983**
pdisl1984	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1984**
pdisl1985	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1985**
pdisl1986	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1986**
pdisl1987	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1987**
pdisl1988	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1988**
pdisl1989	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1989**

pdisl1990	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1990**
pdisl1991	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1991**
pdisl1992	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1992**
pdisl1993	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1993**
pdisl1994	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1994**
pdisl1995	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1995**
pdisl1996	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1996**
pdisl1997	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1997**
pdisl1998	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1998**
pdisl1999	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 1999**
pdisl2000	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2000**
pdisl2001	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2001**
pdisl2002	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2002**
pdisl2003	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2003**
pdisl2004	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2004**
pdisl2005	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2005**
pdisl2006	byte	%8.0g	**level of somatic/physical**

			discomforts (in percentage) in 2006
pdisl2007	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2007**
pdisl2008	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2008**
pdisl2009	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2009**
pdisl2010	byte	%8.0g	**level of somatic/physical discomforts (in percentage) in 2010**
emrel1980	byte	%8.0g	**intensity of ptsd reactions in 1980**
emrel1981	byte	%8.0g	**intensity of ptsd reactions in 1981**
emrel1982	byte	%8.0g	**intensity of ptsd reactions in 1982**
emrel1983	byte	%8.0g	**intensity of ptsd reactions in 1983**
emrel1984	byte	%8.0g	**intensity of ptsd reactions in 1984**
emrel1985	byte	%8.0g	**intensity of ptsd reactions in 1985**
emrel1986	byte	%8.0g	**intensity of ptsd reactions in 1986**
emrel1987	byte	%8.0g	**intensity of ptsd reactions in 1987**
emrel1988	byte	%8.0g	**intensity of ptsd reactions in 1988**
emrel1989	byte	%8.0g	**intensity of ptsd reactions in 1989**
emrel1990	byte	%8.0g	**intensity of ptsd reactions in 1990**
emrel1991	byte	%8.0g	**intensity of ptsd reactions in 1991**
emrel1992	byte	%8.0g	**intensity of ptsd reactions in 1992**
emrel1993	byte	%8.0g	**intensity of ptsd reactions in 1993**
emrel1994	byte	%8.0g	**intensity of ptsd reactions in 1994**
emrel1995	byte	%8.0g	**intensity of ptsd reactions in 1995**
emrel1996	byte	%8.0g	**intensity of ptsd reactions in 1996**
emrel1997	byte	%8.0g	**intensity of ptsd reactions in**

emrel1997	byte	%8.0g	**intensity of ptsd reactions in 1997**
emrel1998	byte	%8.0g	**intensity of ptsd reactions in 1998**
emrel1999	byte	%8.0g	**intensity of ptsd reactions in 1999**
emrel2000	byte	%8.0g	**intensity of ptsd reactions in 2000**
emrel2001	byte	%8.0g	**intensity of ptsd reactions in 2001**
emrel2002	byte	%8.0g	**intensity of ptsd reactions in 2002**
emrel2003	byte	%8.0g	**intensity of ptsd reactions in 2003**
emrel2004	byte	%8.0g	**intensity of ptsd reactions in 2004**
emrel2005	byte	%8.0g	**intensity of ptsd reactions in 2005**
emrel2006	byte	%8.0g	**intensity of ptsd reactions in 2006**
emrel2007	byte	%8.0g	**intensity of ptsd reactions in 2007**
emrel2008	byte	%8.0g	**intensity of ptsd reactions in 2008**
emrel2009	byte	%8.0g	**intensity of ptsd reactions in 2009**
emrel2010	byte	%8.0g	**intensity of ptsd reactions in 2010**
hlthl1980	byte	%8.0g	**intensity of work related problems due to health in 1980**
hlthl1981	byte	%8.0g	**intensity of work related problems due to health in 1981**
hlthl1982	byte	%8.0g	**intensity of work related problems due to health in 1982**
hlthl1983	byte	%8.0g	**intensity of work related problems due to health in 1983**
hlthl1984	byte	%8.0g	**intensity of work related problems due to health in 1984**
hlthl1985	byte	%8.0g	**intensity of work related problems due to health in 1985**
hlthl1986	byte	%8.0g	**intensity of work related problems due to health in 1986**
hlthl1987	byte	%8.0g	**intensity of work related problems due to health in 1987**
hlthl1988	byte	%8.0g	**intensity of work related problems due to health in 1988**
hlthl1989	byte	%8.0g	**intensity of work related problems due to health in 1989**
hlthl1990	byte	%8.0g	**intensity of work related problems due to health in 1990**

hlthl1991	byte	%8.0g	**intensity of work related problems due to health in 1991**
hlthl1992	byte	%8.0g	**intensity of work related problems due to health in 1992**
hlthl1993	byte	%8.0g	**intensity of work related problems due to health in 1993**
hlthl1994	byte	%8.0g	**intensity of work related problems due to health in 1994**
hlthl1995	byte	%8.0g	**intensity of work related problems due to health in 1995**
hlthl1996	byte	%8.0g	**intensity of work related problems due to health in 1996**
hlthl1997	byte	%8.0g	**intensity of work related problems due to health in 1997**
hlthl1998	byte	%8.0g	**intensity of work related problems due to health in 1998**
hlthl1999	byte	%8.0g	**intensity of work related problems due to health in 1999**
hlthl2000	byte	%8.0g	**intensity of work related problems due to health in 2000**
hlthl2001	byte	%8.0g	**intensity of work related problems due to health in 2001**
hlthl2002	byte	%8.0g	**intensity of work related problems due to health in 2002**
hlthl2003	byte	%8.0g	**intensity of work related problems due to health in 2003**
hlthl2004	byte	%8.0g	**intensity of work related problems due to health in 2004**
hlthl2005	byte	%8.0g	**intensity of work related problems due to health in 2005**
hlthl2006	byte	%8.0g	**intensity of work related problems due to health in 2006**
hlthl2007	byte	%8.0g	**intensity of work related problems due to health in 2007**
hlthl2008	byte	%8.0g	**intensity of work related problems due to health in 2008**
hlthl2009	byte	%8.0g	**intensity of work related problems due to health in 2009**
hlthl2010	byte	%8.0g	**intensity of work related problems due to health in 2010**
homel1980	byte	%8.0g	* **intensity of home related problems due to health in 1980**
homel1981	byte	%8.0g	**intensity of home related problems due to health in 1981**
homel1982	byte	%8.0g	**intensity of home related problems due to health in 1982**
homel1983	byte	%8.0g	**intensity of home related problems due to health in 1983**
homel1984	byte	%8.0g	**intensity of home related**

home1985	byte	%8.0g	**intensity of home related problems due to health in 1984**
home1986	byte	%8.0g	**intensity of home related problems due to health in 1985**
home1987	byte	%8.0g	**intensity of home related problems due to health in 1986**
home1988	byte	%8.0g	**intensity of home related problems due to health in 1987**
home1989	byte	%8.0g	**intensity of home related problems due to health in 1988**
home1990	byte	%8.0g	**intensity of home related problems due to health in 1989**
home1991	byte	%8.0g	**intensity of home related problems due to health in 1990**
home1992	byte	%8.0g	**intensity of home related problems due to health in 1991**
home1993	byte	%8.0g	**intensity of home related problems due to health in 1992**
home1994	byte	%8.0g	**intensity of home related problems due to health in 1993**
home1995	byte	%8.0g	**intensity of home related problems due to health in 1994**
home1996	byte	%8.0g	**intensity of home related problems due to health in 1995**
home1997	byte	%8.0g	**intensity of home related problems due to health in 1996**
home1998	byte	%8.0g	**intensity of home related problems due to health in 1997**
home1999	byte	%8.0g	**intensity of home related problems due to health in 1998**
home2000	byte	%8.0g	**intensity of home related problems due to health in 1999**
home2001	byte	%8.0g	**intensity of home related problems due to health in 2000**
home2002	byte	%8.0g	**intensity of home related problems due to health in 2001**
home2003	byte	%8.0g	**intensity of home related problems due to health in 2002**
home2004	byte	%8.0g	**intensity of home related problems due to health in 2003**
home2005	byte	%8.0g	**intensity of home related problems due to health in 2004**
home2006	byte	%8.0g	**intensity of home related problems due to health in 2005**
home2007	byte	%8.0g	**intensity of home related problems due to health in 2006**
home2008	byte	%8.0g	**intensity of home related problems due to health in 2007**

homel2009	byte	%8.0g	**intensity of home related problems due to health in 2009**
homel2010	byte	%8.0g	**intensity of home related problems due to health in 2010**
solil1980	byte	%8.0g	**intensity of social life related problems due to health in 1980**
solil1981	byte	%8.0g	**intensity of social life related problems due to health in 1981**
solil1982	byte	%8.0g	**intensity of social life related problems due to health in 1982**
solil1983	byte	%8.0g	**intensity of social life related problems due to health in 1983**
solil1984	byte	%8.0g	**intensity of social life related problems due to health in 1984**
solil1985	byte	%8.0g	**intensity of social life related problems due to health in 1985**
solil1986	byte	%8.0g	**intensity of social life related problems due to health in 1986**
solil1987	byte	%8.0g	**intensity of social life related problems due to health in 1987**
solil1988	byte	%8.0g	**intensity of social life related problems due to health in 1988**
solil1989	byte	%8.0g	**intensity of social life related problems due to health in 1989**
solil1990	byte	%8.0g	**intensity of social life related problems due to health in 1990**
solil1991	byte	%8.0g	**intensity of social life related problems due to health in 1991**
solil1992	byte	%8.0g	**intensity of social life related problems due to health in 1992**
solil1993	byte	%8.0g	**intensity of social life related problems due to health in 1993**
solil1994	byte	%8.0g	**intensity of social life related problems due to health in 1994**
solil1995	byte	%8.0g	**intensity of social life related problems due to health in 1995**
solil1996	byte	%8.0g	**intensity of social life related problems due to health in 1996**
solil1997	byte	%8.0g	**intensity of social life related problems due to health in 1997**
solil1998	byte	%8.0g	**intensity of social life related problems due to health in 1998**
solil1999	byte	%8.0g	**intensity of social life related problems due to health in 1999**
solil2000	byte	%8.0g	**intensity of social life related problems due to health in 2000**
solil2001	byte	%8.0g	**intensity of social life related problems due to health in 2001**
solil2002	byte	%8.0g	**intensity of social life related**

soli12003	byte	%8.0g	**intensity of social life related problems due to health in 2003**
soli12004	byte	%8.0g	**intensity of social life related problems due to health in 2004**
soli12005	byte	%8.0g	**intensity of social life related problems due to health in 2005**
soli12006	byte	%8.0g	**intensity of social life related problems due to health in 2006**
soli12007	byte	%8.0g	**intensity of social life related problems due to health in 2007**
soli12008	byte	%8.0g	**intensity of social life related problems due to health in 2008**
soli12009	byte	%8.0g	**intensity of social life related problems due to health in 2009**
soli12010	byte	%8.0g	**intensity of social life related problems due to health in 2010**
holil1980	byte	%8.0g	**intensity of home life related problems due to health in 1980**
holil1981	byte	%8.0g	**intensity of home life related problems due to health in 1981**
holil1982	byte	%8.0g	**intensity of home life related problems due to health in 1982**
holil1983	byte	%8.0g	**intensity of home life related problems due to health in 1983**
holil1984	byte	%8.0g	**intensity of home life related problems due to health in 1984**
holil1985	byte	%8.0g	**intensity of home life related problems due to health in 1985**
holil1986	byte	%8.0g	**intensity of home life related problems due to health in 1986**
holil1987	byte	%8.0g	**intensity of home life related problems due to health in 1987**
holil1988	byte	%8.0g	**intensity of home life related problems due to health in 1988**
holil1989	byte	%8.0g	**intensity of home life related problems due to health in 1989**
holil1990	byte	%8.0g	**intensity of home life related problems due to health in 1990**
holil1991	byte	%8.0g	**intensity of home life related problems due to health in 1991**
holil1992	byte	%8.0g	**intensity of home life related problems due to health in 1992**
holil1993	byte	%8.0g	**intensity of home life related problems due to health in 1993**
holil1994	byte	%8.0g	**intensity of home life related problems due to health in 1994**
holil1995	byte	%8.0g	**intensity of home life related problems due to health in 1995**

holil1996	byte	%8.0g	**intensity of home life related problems due to health in 1996**
holil1997	byte	%8.0g	**intensity of home life related problems due to health in 1997**
holil1998	byte	%8.0g	**intensity of home life related problems due to health in 1998**
holil1999	byte	%8.0g	**intensity of home life related problems due to health in 1999**
holil2000	byte	%8.0g	**intensity of home life related problems due to health in 2000**
holil2001	byte	%8.0g	**intensity of home life related problems due to health in 2001**
holil2002	byte	%8.0g	**intensity of home life related problems due to health in 2002**
holil2003	byte	%8.0g	**intensity of home life related problems due to health in 2003**
holil2004	byte	%8.0g	**intensity of home life related problems due to health in 2004**
holil2005	byte	%8.0g	**intensity of home life related problems due to health in 2005**
holil2006	byte	%8.0g	**intensity of home life related problems due to health in 2006**
holil2007	byte	%8.0g	**intensity of home life related problems due to health in 2007**
holil2008	byte	%8.0g	**intensity of home life related problems due to health in 2008**
holil2009	byte	%8.0g	**intensity of home life related problems due to health in 2009**
holil2010	byte	%8.0g	**intensity of home life related problems due to health in 2010**
sexll1980	byte	%8.0g	**intensity of home life related problems due to health in 1980**
sexll1981	byte	%8.0g	**intensity of home life related problems due to health in 1981**
sexll1982	byte	%8.0g	**intensity of home life related problems due to health in 1982**
sexll1983	byte	%8.0g	**intensity of home life related problems due to health in 1983**
sexll1984	byte	%8.0g	**intensity of home life related problems due to health in 1984**
sexll1985	byte	%8.0g	**intensity of home life related problems due to health in 1985**
sexll1986	byte	%8.0g	**intensity of home life related problems due to health in 1986**
sexll1987	byte	%8.0g	**intensity of home life related problems due to health in 1987**
sexll1988	byte	%8.0g	**intensity of home life related problems due to health in 1988**
sexll1989	byte	%8.0g	**intensity of home life related**

			problems due to health in 1989
sexll1990	byte	%8.0g	intensity of home life related problems due to health in 1990
sexll1991	byte	%8.0g	intensity of home life related problems due to health in 1991
sexll1992	byte	%8.0g	intensity of home life related problems due to health in 1992
sexll1993	byte	%8.0g	intensity of home life related problems due to health in 1993
sexll1994	byte	%8.0g	intensity of home life related problems due to health in 1994
sexll1995	byte	%8.0g	intensity of home life related problems due to health in 1995
sexll1996	byte	%8.0g	intensity of home life related problems due to health in 1996
sexll1997	byte	%8.0g	intensity of home life related problems due to health in 1997
sexll1998	byte	%8.0g	intensity of home life related problems due to health in 1998
sexll1999	byte	%8.0g	intensity of home life related problems due to health in 1999
sexll2000	byte	%8.0g	intensity of home life related problems due to health in 2000
sexll2001	byte	%8.0g	intensity of home life related problems due to health in 2001
sexll2002	byte	%8.0g	intensity of home life related problems due to health in 2002
sexll2003	byte	%8.0g	intensity of home life related problems due to health in 2003
sexll2004	byte	%8.0g	intensity of home life related problems due to health in 2004
sexll2005	byte	%8.0g	intensity of home life related problems due to health in 2005
sexll2006	byte	%8.0g	intensity of home life related problems due to health in 2006
sexll2007	byte	%8.0g	intensity of home life related problems due to health in 2007
sexll2008	byte	%8.0g	intensity of home life related problems due to health in 2008
sexll2009	byte	%8.0g	intensity of home life related problems due to health in 2009
sexll2010	byte	%8.0g	intensity of home life related problems due to health in 2010
inhol1980	byte	%8.0g	intensity of interest and hobbies related problems due to health in 1980
inhol1981	byte	%8.0g	intensity of interest and hobbies related problems due to health in 1981

inhol1982	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1982**
inhol1983	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1983**
inhol1984	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1984**
inhol1985	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1985**
inhol1986	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1986**
inhol1987	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1987**
inhol1988	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1988**
inhol1989	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1989**
inhol1990	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1990**
inhol1991	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1991**
inhol1992	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1992**
inhol1993	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1993**
inhol1994	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1994**
inhol1995	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1995**
inhol1996	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1996**
inhol1997	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1997**
inhol1998	byte	%8.0g	**intensity of interest and**

			hobbies related problems due to health in 1998
inhol1999	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 1999**
inhol2000	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2000**
inhol2001	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2001**
inhol2002	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2002**
inhol2003	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2003**
inhol2004	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2004**
inhol2005	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2005**
inhol2006	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2006**
inhol2007	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2007**
inhol2008	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2008**
inhol2009	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2009**
inhol2010	byte	%8.0g	**intensity of interest and hobbies related problems due to health in 2010**
wendl1980	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1980**
wendl1981	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1981**
wendl1982	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1982**
wendl1983	byte	%8.0g	**intensity of holidays - weekends related problems due to health**

			in 1983
wendl1984	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1984**
wendl1985	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1985**
wendl1986	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1986**
wendl1987	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1987**
wendl1988	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1988**
wendl1989	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1989**
wendl1990	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1990**
wendl1991	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1991**
wendl1992	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1992**
wendl1993	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1993**
wendl1994	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1994**
wendl1995	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1995**
wendl1996	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1996**
wendl1997	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1997**
wendl1998	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1998**
wendl1999	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 1999**

wendl2000	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2000**
wendl2001	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2001**
wendl2002	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2002**
wendl2003	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2003**
wendl2004	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2004**
wendl2005	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2005**
wendl2006	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2006**
wendl2007	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2007**
wendl2008	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2008**
wendl2009	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2009**
wendl2010	byte	%8.0g	**intensity of holidays - weekends related problems due to health in 2010**
smokel1980	int	%8.0g	**number of cigarettes smoked per week in 1980**
smokel1981	int	%8.0g	**number of cigarettes smoked per week in 1981**
smokel1982	int	%8.0g	**number of cigarettes smoked per week in 1982**
smokel1983	int	%8.0g	**number of cigarettes smoked per week in 1983**
smokel1984	int	%8.0g	**number of cigarettes smoked per week in 1984**
smokel1985	int	%8.0g	**number of cigarettes smoked per week in 1985**
smokel1986	int	%8.0g	**number of cigarettes smoked per week in 1986**
smokel1987	int	%8.0g	**number of cigarettes smoked per week in 1987**

smoke1988	int	%8.0g	**number of cigarettes smoked per week in 1988**
smoke1989	int	%8.0g	**number of cigarettes smoked per week in 1989**
smoke1990	int	%8.0g	**number of cigarettes smoked per week in 1990**
smoke1991	int	%8.0g	**number of cigarettes smoked per week in 1991**
smoke1992	int	%8.0g	**number of cigarettes smoked per week in 1992**
smoke1993	int	%8.0g	**number of cigarettes smoked per week in 1993**
smoke1994	int	%8.0g	**number of cigarettes smoked per week in 1994**
smoke1995	int	%8.0g	**number of cigarettes smoked per week in 1995**
smoke1996	int	%8.0g	**number of cigarettes smoked per week in 1996**
smoke1997	int	%8.0g	**number of cigarettes smoked per week in 1997**
smoke1998	int	%8.0g	**number of cigarettes smoked per week in 1998**
smoke1999	int	%8.0g	**number of cigarettes smoked per week in 1999**
smoke2000	int	%8.0g	**number of cigarettes smoked per week in 2000**
smoke2001	int	%8.0g	**number of cigarettes smoked per week in 2001**
smoke2002	int	%8.0g	**number of cigarettes smoked per week in 2002**
smoke2003	int	%8.0g	**number of cigarettes smoked per week in 2003**
smoke2004	int	%8.0g	**number of cigarettes smoked per week in 2004**
smoke2005	int	%8.0g	**number of cigarettes smoked per week in 2005**
smoke2006	int	%8.0g	**number of cigarettes smoked per week in 2006**
smoke2007	int	%8.0g	**number of cigarettes smoked per week in 2007**
smoke2008	int	%8.0g	**number of cigarettes smoked per week in 2008**
smoke2009	int	%8.0g	**number of cigarettes smoked per week in 2009**
smoke2010	int	%8.0g	**number of cigarettes smoked per week in 2010**
drinl1980	byte	%8.0g	**number of beer of wine consumed per week in 1980**
drinl1981	byte	%8.0g	**number of beer of wine consumed**

			per week in 1981
drinl1982	byte	%8.0g	**number of beer of wine consumed per week in 1982**
drinl1983	byte	%8.0g	**number of beer of wine consumed per week in 1983**
drinl1984	byte	%8.0g	**number of beer of wine consumed per week in 1984**
drinl1985	byte	%8.0g	**number of beer of wine consumed per week in 1985**
drinl1986	byte	%8.0g	**number of beer of wine consumed per week in 1986**
drinl1987	byte	%8.0g	**number of beer of wine consumed per week in 1987**
drinl1988	byte	%8.0g	**number of beer of wine consumed per week in 1988**
drinl1989	byte	%8.0g	**number of beer of wine consumed per week in 1989**
drinl1990	byte	%8.0g	**number of beer of wine consumed per week in 1990**
drinl1991	byte	%8.0g	**number of beer of wine consumed per week in 1991**
drinl1992	byte	%8.0g	**number of beer of wine consumed per week in 1992**
drinl1993	byte	%8.0g	**number of beer of wine consumed per week in 1993**
drinl1994	byte	%8.0g	**number of beer of wine consumed per week in 1994**
drinl1995	byte	%8.0g	**number of beer of wine consumed per week in 1995**
drinl1996	byte	%8.0g	**number of beer of wine consumed per week in 1996**
drinl1997	byte	%8.0g	**number of beer of wine consumed per week in 1997**
drinl1998	byte	%8.0g	**number of beer of wine consumed per week in 1998**
drinl1999	byte	%8.0g	**number of beer of wine consumed per week in 1999**
drinl2000	byte	%8.0g	**number of beer of wine consumed per week in 2000**
drinl2001	byte	%8.0g	**number of beer of wine consumed per week in 2001**
drinl2002	byte	%8.0g	**number of beer of wine consumed per week in 2002**
drinl2003	byte	%8.0g	**number of beer of wine consumed per week in 2003**
drinl2004	byte	%8.0g	**number of beer of wine consumed per week in 2004**
drinl2005	byte	%8.0g	**number of beer of wine consumed per week in 2005**

drinl2006	byte	%8.0g	**number of beer of wine consumed per week in 2006**
drinl2007	byte	%8.0g	**number of beer of wine consumed per week in 2007**
drinl2008	byte	%8.0g	**number of beer of wine consumed per week in 2008**
drinl2009	byte	%8.0g	**number of beer of wine consumed per week in 2009**
drinl2010	byte	%8.0g	**number of beer of wine consumed per week in 2010**
vodkaq1980	byte	%8.0g	**number of vodaka drinks consumed per week in 1980**
vodkaq1981	byte	%8.0g	**number of vodaka drinks consumed per week in 1981**
vodkaq1982	byte	%8.0g	**number of vodaka drinks consumed per week in 1982**
vodkaq1983	byte	%8.0g	**number of vodaka drinks consumed per week in 1983**
vodkaq1984	byte	%8.0g	**number of vodaka drinks consumed per week in 1984**
vodkaq1985	byte	%8.0g	**number of vodaka drinks consumed per week in 1985**
vodkaq1986	byte	%8.0g	**number of vodaka drinks consumed per week in 1986**
vodkaq1987	byte	%8.0g	**number of vodaka drinks consumed per week in 1987**
vodkaq1988	byte	%8.0g	**number of vodaka drinks consumed per week in 1988**
vodkaq1989	byte	%8.0g	**number of vodaka drinks consumed per week in 1989**
vodkaq1990	byte	%8.0g	**number of vodaka drinks consumed per week in 1990**
vodkaq1991	byte	%8.0g	**number of vodaka drinks consumed per week in 1991**
vodkaq1992	byte	%8.0g	**number of vodaka drinks consumed per week in 1992**
vodkaq1993	byte	%8.0g	**number of vodaka drinks consumed per week in 1993**
vodkaq1994	byte	%8.0g	**number of vodaka drinks consumed per week in 1994**
vodkaq1995	byte	%8.0g	**number of vodaka drinks consumed per week in 1995**
vodkaq1996	byte	%8.0g	**number of vodaka drinks consumed per week in 1996**
vodkaq1997	byte	%8.0g	**number of vodaka drinks consumed per week in 1997**
vodkaq1998	byte	%8.0g	**number of vodaka drinks consumed per week in 1998**
vodkaq1999	byte	%8.0g	**number of vodaka drinks consumed**

			per week in 1999
vodkaq2000	byte	%8.0g	number of vodaka drinks consumed per week in 2000
vodkaq2001	byte	%8.0g	number of vodaka drinks consumed per week in 2001
vodkaq2002	byte	%8.0g	number of vodaka drinks consumed per week in 2002
vodkaq2003	byte	%8.0g	number of vodaka drinks consumed per week in 2003
vodkaq2004	byte	%8.0g	number of vodaka drinks consumed per week in 2004
vodkaq2005	byte	%8.0g	number of vodaka drinks consumed per week in 2005
vodkaq2006	byte	%8.0g	number of vodaka drinks consumed per week in 2006
vodkaq2007	byte	%8.0g	number of vodaka drinks consumed per week in 2007
vodkaq2008	byte	%8.0g	number of vodaka drinks consumed per week in 2008
vodkaq2009	byte	%8.0g	number of vodaka drinks consumed per week in 2009
vodkaq2010	byte	%8.0g	number of vodaka drinks consumed per week in 2010
painq1980	byte	%8.0g	number of pain medications per week in 1980
painq1981	byte	%8.0g	number of pain medications per week in 1981
painq1982	byte	%8.0g	number of pain medications per week in 1982
painq1983	byte	%8.0g	number of pain medications per week in 1983
painq1984	byte	%8.0g	number of pain medications per week in 1984
painq1985	byte	%8.0g	number of pain medications per week in 1985
painq1986	byte	%8.0g	number of pain medications per week in 1986
painq1987	byte	%8.0g	number of pain medications per week in 1987
painq1988	byte	%8.0g	number of pain medications per week in 1988
painq1989	byte	%8.0g	number of pain medications per week in 1989
painq1990	byte	%8.0g	number of pain medications per week in 1990
painq1991	byte	%8.0g	number of pain medications per week in 1991
painq1992	byte	%8.0g	number of pain medications per week in 1992

painq1993	byte	%8.0g	**number of pain medications per week in 1993**
painq1994	byte	%8.0g	**number of pain medications per week in 1994**
painq1995	byte	%8.0g	**number of pain medications per week in 1995**
painq1996	byte	%8.0g	**number of pain medications per week in 1996**
painq1997	byte	%8.0g	**number of pain medications per week in 1997**
painq1998	byte	%8.0g	**number of pain medications per week in 1998**
painq1999	byte	%8.0g	**number of pain medications per week in 1999**
painq2000	byte	%8.0g	**number of pain medications per week in 2000**
painq2001	byte	%8.0g	**number of pain medications per week in 2001**
painq2002	byte	%8.0g	**number of pain medications per week in 2002**
painq2003	byte	%8.0g	**number of pain medications per week in 2003**
painq2004	byte	%8.0g	**number of pain medications per week in 2004**
painq2005	byte	%8.0g	**number of pain medications per week in 2005**
painq2006	byte	%8.0g	**number of pain medications per week in 2006**
painq2007	byte	%8.0g	**number of pain medications per week in 2007**
painq2008	byte	%8.0g	**number of pain medications per week in 2008**
painq2009	byte	%8.0g	**number of pain medications per week in 2009**
painq2010	byte	%8.0g	**number of pain medications per week in 2010**
doctn1980	byte	%8.0g	**number of doctor visits for any health reasons in 1980**
doctn1981	byte	%8.0g	**number of doctor visits for any health reasons in 1981**
doctn1982	byte	%8.0g	**number of doctor visits for any health reasons in 1982**
doctn1983	byte	%8.0g	**number of doctor visits for any health reasons in 1983**
doctn1984	byte	%8.0g	**number of doctor visits for any health reasons in 1984**
doctn1985	byte	%8.0g	**number of doctor visits for any health reasons in 1985**
doctn1986	byte	%8.0g	**number of doctor visits for any**

			health reasons in 1986
doctn1987	byte	%8.0g	**number of doctor visits for any health reasons in 1987**
doctn1988	byte	%8.0g	**number of doctor visits for any health reasons in 1988**
doctn1989	byte	%8.0g	**number of doctor visits for any health reasons in 1989**
doctn1990	byte	%8.0g	**number of doctor visits for any health reasons in 1990**
doctn1991	byte	%8.0g	**number of doctor visits for any health reasons in 1991**
doctn1992	byte	%8.0g	**number of doctor visits for any health reasons in 1992**
doctn1993	byte	%8.0g	**number of doctor visits for any health reasons in 1993**
doctn1994	byte	%8.0g	**number of doctor visits for any health reasons in 1994**
doctn1995	byte	%8.0g	**number of doctor visits for any health reasons in 1995**
doctn1996	byte	%8.0g	**number of doctor visits for any health reasons in 1996**
doctn1997	byte	%8.0g	**number of doctor visits for any health reasons in 1997**
doctn1998	byte	%8.0g	**number of doctor visits for any health reasons in 1998**
doctn1999	byte	%8.0g	**number of doctor visits for any health reasons in 1999**
doctn2000	byte	%8.0g	**number of doctor visits for any health reasons in 2000**
doctn2001	byte	%8.0g	**number of doctor visits for any health reasons in 2001**
doctn2002	byte	%8.0g	**number of doctor visits for any health reasons in 2002**
doctn2003	byte	%8.0g	**number of doctor visits for any health reasons in 2003**
doctn2004	byte	%8.0g	**number of doctor visits for any health reasons in 2004**
doctn2005	byte	%8.0g	**number of doctor visits for any health reasons in 2005**
doctn2006	byte	%8.0g	**number of doctor visits for any health reasons in 2006**
doctn2007	byte	%8.0g	**number of doctor visits for any health reasons in 2007**
doctn2008	byte	%8.0g	**number of doctor visits for any health reasons in 2008**
doctn2009	byte	%8.0g	**number of doctor visits for any health reasons in 2009**
doctn2010	byte	%8.0g	**number of doctor visits for any health reasons in 2010**

fampll1980	byte	%8.0g	**percent of influence that radiation had on family planning in 1980**
fampll1981	byte	%8.0g	**percent of influence that radiation had on family planning in 1981**
fampll1982	byte	%8.0g	**percent of influence that radiation had on family planning in 1982**
fampll1983	byte	%8.0g	**percent of influence that radiation had on family planning in 1983**
fampll1984	byte	%8.0g	**percent of influence that radiation had on family planning in 1984**
fampll1985	byte	%8.0g	**percent of influence that radiation had on family planning in 1985**
fampll1986	byte	%8.0g	**percent of influence that radiation had on family planning in 1986**
fampll1987	byte	%8.0g	**percent of influence that radiation had on family planning in 1987**
fampll1988	byte	%8.0g	**percent of influence that radiation had on family planning in 1988**
fampll1989	byte	%8.0g	**percent of influence that radiation had on family planning in 1989**
fampll1990	byte	%8.0g	**percent of influence that radiation had on family planning in 1990**
fampll1991	byte	%8.0g	**percent of influence that radiation had on family planning in 1991**
fampll1992	byte	%8.0g	**percent of influence that radiation had on family planning in 1992**
fampll1993	byte	%8.0g	**percent of influence that radiation had on family planning in 1993**
fampll1994	byte	%8.0g	**percent of influence that radiation had on family planning in 1994**
fampll1995	byte	%8.0g	**percent of influence that radiation had on family planning in 1995**
fampll1996	byte	%8.0g	**percent of influence that**

			radiation had on family planning in 1996
fampll1997	byte	%8.0g	percent of influence that radiation had on family planning in 1997
fampll1998	byte	%8.0g	percent of influence that radiation had on family planning in 1998
fampll1999	byte	%8.0g	percent of influence that radiation had on family planning in 1999
fampll2000	byte	%8.0g	percent of influence that radiation had on family planning in 2000
fampll2001	byte	%8.0g	percent of influence that radiation had on family planning in 2001
fampll2002	byte	%8.0g	percent of influence that radiation had on family planning in 2002
fampll2003	byte	%8.0g	percent of influence that radiation had on family planning in 2003
fampll2004	byte	%8.0g	percent of influence that radiation had on family planning in 2004
fampll2005	byte	%8.0g	percent of influence that radiation had on family planning in 2005
fampll2006	byte	%8.0g	percent of influence that radiation had on family planning in 2006
fampll2007	byte	%8.0g	percent of influence that radiation had on family planning in 2007
fampll2008	byte	%8.0g	percent of influence that radiation had on family planning in 2008
fampll2009	byte	%8.0g	percent of influence that radiation had on family planning in 2009
fampll2010	byte	%8.0g	percent of influence that radiation had on family planning in 2010
sett1r1	str23	%23s	* town of residence 1 time: april 26 - june 30 1986
sett1r2	str32	%32s	* town of residence 2 time: april 26 - june 30 1986
sett1r3	str32	%32s	* town of residence 3 time: april

			26 - june 30 1986
sett1r4	str32	%32s	* town of residence 4 time: april 26 - june 30 1986
rait1r1	str23	%23s	* raion of residence 1 time: april 26 - june 30 1986
rait1r2	str32	%32s	* raion of residence 2 time: april 26 - june 30 1986
rait1r3	str32	%32s	* raion of residence 3 time: april 26 - june 30 1986
rait1r4	str32	%32s	* raion of residence 4 time: april 26 - june 30 1986
latdt1r1	byte	%10.0g	* latitude in degrees residence 1 time 1 april 26-june 30 1986
latdt1r2	byte	%10.0g	* latitude in degrees residence 2 time 1 april 26-june 30 1986
latdt1r3	byte	%10.0g	* latitude in degrees residence 3 time 1 april 26-june 30 1986
latdt1r4	byte	%10.0g	* latitude in degrees residence 4 time 1 april 26-june 30 1986
londt1r1	int	%10.0g	* longitude in degrees residence 1 time 1 april 26-june 30 1986
londt1r2	int	%10.0g	* longitude in degrees residence 2 time 1 april 26-june 30 1986
londt1r3	byte	%10.0g	* longitude in degrees residence 3 time 1 april 26-june 30 1986
londt1r4	byte	%10.0g	* longitude in degrees residence 4 time 1 april 26-june 30 1986
latmt1r1	byte	%10.0g	* latitude in minutes residence 1 time 1 april 26-june 30 1986
latmt1r2	int	%10.0g	* latitude in minutes residence 2 time 1 april 26-june 30 1986
latmt1r3	byte	%10.0g	* latitude in minutes residence 3 time 1 april 26-june 30 1986
latmt1r4	byte	%10.0g	* latitude in minutes residence 4 time 1 april 26-june 30 1986
lonmt1r1	byte	%10.0g	* longitude in minutes residence 1 time 1 april 26-june 30 1986
lonmt1r2	int	%10.0g	* longitude in minutes residence 2 time 1 april 26-june 30 1986
lonmt1r3	byte	%10.0g	* longitude in minutes residence 3 time 1 april 26-june 30 1986
lonmt1r4	byte	%10.0g	* longitude in minutes residence 4 time 1 april 26-june 30 1986
dayt1r1	int	%10.0g	* days in residence 1 time 1 april 26-june 30 1986
dayt1r2	byte	%10.0g	* days in residence 2 time 1 april 26-june 30 1986
dayt1r3	byte	%10.0g	* days in residence 3 time 1 april 26-june 30 1986

dayt1r4	byte	%10.0g		* **days in residence 4 time 1 april 26-june 30 1986**
oblt1r1	byte	%31.0g	LABG	* **oblast of residence 1 time 1 april 26-june 30 1986**
oblt1r2	byte	%31.0g	LABG	* **oblast of residence 2 time 1 april 26-june 30 1986**
oblt1r3	byte	%31.0g	LABG	* **oblast of residence 3 time 1 april 26-june 30 1986**
oblt1r4	byte	%31.0g	LABG	* **oblast of residence 4 time 1 april 26-june 30 1986**
latt1r1	byte	%15.0g	LABF	* **latitude direction residence 1 time 1 april 26-june 30 1986**
latt1r2	byte	%15.0g	LABF	* **latitude direction residence 2 time 1 april 26-june 30 1986**
latt1r3	byte	%15.0g	LABF	* **latitude direction residence 3 time 1 april 26-june 30 1986**
latt1r4	byte	%15.0g	LABF	* **latitude direction residence 4 time 1 april 26-june 30 1986**
lont1r1	byte	%10.0g	lon	* **longitude direction residence 1 time 1 april 26-june 30 1986**
lont1r2	byte	%10.0g	lon	* **longitude direction residence 2 time 1 april 26-june 30 1986**
lont1r3	byte	%10.0g	lon	* **longitude direction residence 3 time 1 april 26-june 30 1986**
lont1r4	byte	%10.0g	lon	* **longitude direction residence 4 time 1 april 26-june 30 1986**
typet1r1	byte	%23.0g	LABL	* **type of residence 1 time 1 april 26-june 30 1986**
typet1r2	byte	%23.0g	LABL	* **type of residence 2 time 1 april 26-june 30 1986**
typet1r3	byte	%23.0g	LABL	* **type of residence 3 time 1 april 26-june 30 1986**
typet1r4	byte	%23.0g	LABL	* **type of residence 4 time 1 april 26-june 30 1986**
occt1r1	byte	%22.0g	LABM	* **occupation while in residence 1 time 1 april 26-june 30 1986**
occt1r2	byte	%22.0g	LABM	* **occupation while in residence 2 time 1 april 26-june 30 1986**
occt1r3	byte	%22.0g	LABM	* **occupation while in residence 3 time 1 april 26-june 30 1986**
occt1r4	byte	%22.0g	LABM	* **occupation while in residence 1 time 1 april 26-june 30 1986**
ldrt1r1	byte	%15.0g	LABC	* **did you consume liquid dairy products while in residence 1 time 1**
ldrt1r2	byte	%15.0g	LABC	* **did you consume liquid dairy products while in residence 2 time 1**
ldrt1r3	byte	%15.0g	LABC	* **did you consume liquid dairy**

				products while in residence 3 time 1
ldrt1r4	byte	%15.0g	LABC	* did you consume liquid dairy products while in residence 4 time 1
sldrt1r1	byte	%20.0g	LABN	* source of liquid dairy products while in residence 1 time 1
sldrt1r2	byte	%20.0g	LABN	* source of liquid dairy products while in residence 2 time 1
sldrt1r3	byte	%20.0g	LABN	* source of liquid dairy products while in residence 3 time 1
sldrt1r4	byte	%20.0g	LABN	* source of liquid dairy products while in residence 4 time 1
mlldt1r1	long	%8.0g		* quantity of liquid dairy products (in ml) while in residence 1 time 1
mlldt1r2	int	%8.0g		* quantity of liquid dairy products (in ml) while in residence 2 time 1
mlldt1r3	int	%8.0g		* quantity of liquid dairy products (in ml) while in residence 3 time 1
mlldt1r4	int	%8.0g		* quantity of liquid dairy products (in ml) while in residence 4 time 1
sdrt1r1	byte	%15.0g	LABC	* did you consume solid dairy products while in residence 1 time 1
sdrt1r2	byte	%15.0g	LABC	* did you consume solid dairy products while in residence 2 time 1
sdrt1r3	byte	%15.0g	LABC	* did you consume solid dairy products while in residence 3 time 1
sdrt1r4	byte	%15.0g	LABC	* did you consume solid dairy products while in residence 4 time 1
ssdrt1r1	byte	%20.0g	LABN	* sourse of solid dairy products in residence 1 time 1
ssdrt1r2	byte	%20.0g	LABN	* sourse of solid dairy products in residence 2 time 1
ssdrt1r3	byte	%20.0g	LABN	* sourse of solid dairy products in residence 3 time 1
ssdrt1r4	byte	%20.0g	LABN	* sourse of solid dairy products in residence 4 time 1
gldt1r1	long	%8.0g		* quantity of solid dairy products (in grams) while in residence 1 time 1
gldt1r2	long	%8.0g		* quantity of solid dairy products

				(in grams) while in residence 2 time 1
gldt1r3	int	%8.0g		* quantity of solid dairy products (in grams) while in residence 3 time 1
gldt1r4	int	%8.0g		* quantity of solid dairy products (in grams) while in residence 4 time 1
lvt1r1	byte	%15.0g	LABC	* did you consume leafy vegetables while in residence 1 time 1
lvt1r2	byte	%15.0g	LABC	* did you consume leafy vegetables while in residence 2 time 1
lvt1r3	byte	%15.0g	LABC	* did you consume leafy vegetables while in residence 3 time 1
lvt1r4	byte	%15.0g	LABC	* did you consume leafy vegetables while in residence 4 time 1
slvt1r1	byte	%20.0g	LABN	* source of leafy vegetables while in residence 1 time 1
slvt1r2	byte	%20.0g	LABN	* source of leafy vegetables while in residence 2 time 1
slvt1r3	byte	%20.0g	LABN	* source of leafy vegetables while in residence 3 time 1
slvt1r4	byte	%20.0g	LABN	* source of leafy vegetables while in residence 4 time 1
glvt1r1	int	%8.0g		* quantity of leafy vegetables (in grams) while in residence 1 time 1
glvt1r2	int	%8.0g		* quantity of leafy vegetables (in grams) while in residence 2 time 1
glvt1r3	int	%8.0g		* quantity of leafy vegetables (in grams) while in residence 3 time 1
glvt1r4	int	%8.0g		* quantity of leafy vegetables (in grams) while in residence 4 time 1
sett2r1	str23	%23s		* town of residence 1 time2: july 1- december 31 1986
sett2r2	str32	%32s		* town of residence 2 time2: july 1- december 31 1986
sett2r3	str32	%32s		* town of residence 3 time2: july 1- december 31 1986
sett2r4	str32	%32s		* town of residence 4 time2: july 1- december 31 1986
rait2r1	str23	%23s		* raion of residence 1 time2: july 1- december 31 1986
rait2r2	str32	%32s		* raion of residence 2 time2: july 1- december 31 1986
rait2r3	str32	%32s		* raion of residence 3 time2: july

			1- december 31 1986
rait2r4	str32	%32s	* raion of residence 4 time2: july 1- december 31 1986
latdt2r1	byte	%8.0g	* latitude in degrees residence 1 time 2: july 1-december 31 1986
latdt2r2	byte	%8.0g	* latitude in degrees residence 2 time 2: july 1-december 31 1986
latdt2r3	byte	%8.0g	* latitude in degrees residence 3 time 2: july 1-december 31 1986
latdt2r4	byte	%8.0g	* latitude in degrees residence 4 time 2: july 1-december 31 1986
londt2r1	byte	%8.0g	* longitude in degrees residence 1 time 2: july 1-december 31 1986
londt2r2	byte	%8.0g	* longitude in degrees residence 2 time 2: july 1-december 31 1986
londt2r3	byte	%8.0g	* longitude in degrees residence 3 time 2: july 1-december 31 1986
londt2r4	byte	%8.0g	* longitude in degrees residence 4 time 2: july 1-december 31 1986
latmt2r1	byte	%8.0g	* latitude in minutes residence 1 time 2: july 1-december 31 1986
latmt2r2	byte	%8.0g	* latitude in minutes residence 2 time 2: july 1-december 31 1986
latmt2r3	byte	%8.0g	* latitude in minutes residence 3 time 2: july 1-december 31 1986
latmt2r4	byte	%8.0g	* latitude in minutes residence 4 time 2: july 1-december 31 1986
lonmt2r1	byte	%8.0g	* longitude in minutes residence 1 time 2: july 1-december 31 1986
lonmt2r2	byte	%8.0g	* longitude in minutes residence 2 time 2: july 1-december 31 1986
lonmt2r3	byte	%8.0g	* longitude in minutes residence 3 time 2: july 1-december 31 1986
lonmt2r4	byte	%8.0g	* longitude in minutes residence 4

				time 2: july 1-december 31 1986
dayt2r1	int	%10.0g		* days in residence 1 time 2: from july 1 -december 31 1986
dayt2r2	int	%10.0g		* days in residence 2 time 2: from july 1 -december 31 1986
dayt2r3	int	%10.0g		* days in residence 3 time 2: from july 1 -december 31 1986
dayt2r4	int	%10.0g		* days in residence 4 time 2: from july 1 -december 31 1986
oblt2r1	byte	%31.0g	LABG	* oblast of residence 1 time 2: july 1-december 31 1986
oblt2r2	byte	%31.0g	LABG	* oblast of residence 2 time 2: july 1-december 31 1986
oblt2r3	byte	%31.0g	LABG	* oblast of residence 3 time 2: july 1-december 31 1986
oblt2r4	byte	%31.0g	LABG	* oblast of residence 4 time 2: july 1-december 31 1986
latt2r1	byte	%15.0g	LABF	* latitude direction of residence 1 time 2: july 1-december 31 1986
latt2r2	byte	%15.0g	LABF	* latitude direction of residence 2 time 2: july 1-december 31 1986
latt2r3	byte	%15.0g	LABF	* latitude direction of residence 3 time 2: july 1-december 31 1986
latt2r4	byte	%15.0g	LABF	* latitude direction of residence 4 time 2: july 1-december 31 1986
lont2r1	byte	%10.0g	lon	* longitude direction of residence 1 time 2: july 1-december 31 1986
lont2r2	byte	%10.0g	lon	* longitude direction of residence 2 time 2: july 1-december 31 1986
lont2r3	byte	%10.0g	lon	* longitude direction of residence 3 time 2: july 1-december 31 1986
lont2r4	byte	%10.0g	lon	* longitude direction of residence 4 time 2: july 1-december 31 1986
typet2r1	byte	%23.0g	LABL	* type of residence 1 time 2: july 1-december 31 1986
typet2r2	byte	%23.0g	LABL	* type of residence 2 time 2: july 1-december 31 1986
typet2r3	byte	%23.0g	LABL	* type of residence 3 time 2: july 1-december 31 1986
typet2r4	byte	%23.0g	LABL	* type of residence 4 time 2:

				july 1-december 31 1986
occt2r1	byte	%22.0g	LABM	*** occupation when in residence 1 time 2: july 1-december 31 1986**
occt2r2	byte	%22.0g	LABM	*** occupation when in residence 2 time 2: july 1-december 31 1986**
occt2r3	byte	%22.0g	LABM	*** occupation when in residence 3 time 2: july 1-december 31 1986**
occt2r4	byte	%22.0g	LABM	*** occupation when in residence 4 time 2: july 1-december 31 1986**
ldrt2r1	byte	%15.0g	LABC	*** did you consume liquid dairy in residence 1 time 2: july 1-december 31 1986**
ldrt2r2	byte	%15.0g	LABC	*** did you consume liquid dairy in residence 2 time 2: july 1-december 31 1986**
ldrt2r3	byte	%15.0g	LABC	*** did you consume liquid dairy in residence 3 time 2: july 1-december 31 1986**
ldrt2r4	byte	%15.0g	LABC	*** did you consume liquid dairy in residence 4 time 2: july 1-december 31 1986**
sldrt2r1	byte	%20.0g	LABN	*** source of liquid dairy residence 1 time 2: july 1-december 31 1986**
sldrt2r2	byte	%20.0g	LABN	*** source of liquid dairy residence 2 time 2: july 1-december 31 1986**
sldrt2r3	byte	%20.0g	LABN	*** source of liquid dairy residence 3 time 2: july 1-december 31 1986**
sldrt2r4	byte	%20.0g	LABN	*** source of liquid dairy residence 4 time 2: july 1-december 31 1986**
mlldt2r1	int	%8.0g		*** quantity liquid dairy (in ml) residence 1 time 2: july 1-december 31 1986**
mlldt2r2	int	%8.0g		*** quantity liquid dairy (in ml) residence 2 time 2: july 1-december 31 1986**
mlldt2r3	int	%8.0g		*** quantity liquid dairy (in ml) residence 3 time 2: july 1-december 31 1986**
mlldt2r4	int	%8.0g		*** quantity liquid dairy (in ml) residence 4 time 2: july 1-december 31 1986**

sdrt2r1	byte	%15.0g	LABC	* **did you consume solid dairy in residence 1 time 2: july 1-december 31 1986**
sdrt2r2	byte	%15.0g	LABC	* **did you consume solid dairy in residence 2 time 2: july 1-december 31 1986**
sdrt2r3	byte	%15.0g	LABC	* **did you consume solid dairy in residence 3 time 2: july 1-december 31 1986**
sdrt2r4	byte	%15.0g	LABC	* **did you consume solid dairy in residence 4 time 2: july 1-december 31 1986**
ssdrt2r1	byte	%20.0g	LABN	* **source of solid dairy in residence 1 time 2: july 1-december 31 1986**
ssdrt2r2	byte	%20.0g	LABN	* **source of solid dairy in residence 2 time 2: july 1-december 31 1986**
ssdrt2r3	byte	%20.0g	LABN	* **source of solid dairy in residence 3 time 2: july 1-december 31 1986**
ssdrt2r4	byte	%20.0g	LABN	* **source of solid dairy in residence 4 time 2: july 1-december 31 1986**
gldt2r1	long	%8.0g		* **quantity solid dairy (in grams) residence 1 time 2: july 1-december 31 1986**
gldt2r2	long	%8.0g		* **quantity solid dairy (in grams) residence 2 time 2: july 1-december 31 1986**
gldt2r3	int	%8.0g		* **quantity solid dairy (in grams) residence 3 time 2: july 1-december 31 1986**
gldt2r4	int	%8.0g		* **quantity solid dairy (in grams) residence 4 time 2: july 1-december 31 1986**
pott2r1	byte	%15.0g	LABC	**did you consume potatoes in residence 1 time 2: july 1-december 31 1986**
pott2r2	byte	%15.0g	LABC	**did you consume potatoes in residence 2 time 2: july 1-december 31 1986**
pott2r3	byte	%15.0g	LABC	**did you consume potatoes in residence 3 time 2: july 1-december 31 1986**
pott2r4	byte	%15.0g	LABC	**did you consume potatoes in residence 4 time 2: july 1-december 31 1986**
spott2r1	byte	%20.0g	LABN	**source of potatoes in residence**

				1 time 2: july 1-december 31 1986
spott2r2	byte	%20.0g	LABN	source of potatoes in residence 2 time 2: july 1-december 31 1986
spott2r3	byte	%20.0g	LABN	source of potatoes in residence 3 time 2: july 1-december 31 1986
spott2r4	byte	%20.0g	LABN	source of potatoes in residence 4 time 2: july 1-december 31 1986
gpott2r1	long	%8.0g		* quantity of potatoes (in grams) in residence 1 time 2: july 1-december 31 1986
gpott2r2	long	%8.0g		* quantity of potatoes (in grams) in residence 2 time 2: july 1-december 31 1986
gpott2r3	int	%8.0g		* quantity of potatoes (in grams) in residence 3 time 2: july 1-december 31 1986
gpott2r4	int	%8.0g		* quantity of potatoes (in grams) in residence 4 time 2: july 1-december 31 1986
prkt2r1	byte	%15.0g	LABC	did you consume pork in residence 1 time 2: july 1-december 31 1986
prkt2r2	byte	%15.0g	LABC	did you consume pork in residence 2 time 2: july 1-december 31 1986
prkt2r3	byte	%15.0g	LABC	did you consume pork in residence 3 time 2: july 1-december 31 1986
prkt2r4	byte	%15.0g	LABC	did you consume pork in residence 4 time 2: july 1-december 31 1986
sprkt2r1	byte	%20.0g	LABN	source of pork in residence 1 time 2: july 1-december 31 1986
sprkt2r2	byte	%20.0g	LABN	source of pork in residence 2 time 2: july 1-december 31 1986
sprkt2r3	byte	%20.0g	LABN	source of pork in residence 3 time 2: july 1-december 31 1986
sprkt2r4	byte	%20.0g	LABN	source of pork in residence 4 time 2: july 1-december 31 1986
gprkt2r1	int	%8.0g		* quantity of pork (in grams) residence 1 time 2: july

				1-december 31 1986
gprkt2r2	int	%8.0g		* quantity of pork (in grams) residence 2 time 2: july 1-december 31 1986
gprkt2r3	int	%8.0g		* quantity of pork (in grams) residence 3 time 2: july 1-december 31 1986
gprkt2r4	int	%8.0g		* quantity of pork (in grams) residence 4 time 2: july 1-december 31 1986
beft2r1	byte	%15.0g	LABC	did you consume beef in residence 1 time 2: july 1-december 31 1986
beft2r2	byte	%15.0g	LABC	did you consume beef in residence 2 time 2: july 1-december 31 1986
beft2r3	byte	%15.0g	LABC	did you consume beef in residence 3 time 2: july 1-december 31 1986
beft2r4	byte	%15.0g	LABC	did you consume beef in residence 4 time 2: july 1-december 31 1986
sbeft2r1	byte	%20.0g	LABN	source of beef in residence 1 time 2: july 1-december 31 1986
sbeft2r2	byte	%20.0g	LABN	source of beef in residence 2 time 2: july 1-december 31 1986
sbeft2r3	byte	%20.0g	LABN	source of beef in residence 3 time 2: july 1-december 31 1986
sbeft2r4	byte	%20.0g	LABN	source of beef in residence 4 time 2: july 1-december 31 1986
gbeft2r1	int	%8.0g		* quantity of beef (in grams) residence 1 time 2: july 1-december 31 1986
gbeft2r2	int	%8.0g		* quantity of beef (in grams) residence 2 time 2: july 1-december 31 1986
gbeft2r3	int	%8.0g		* quantity of beef (in grams) residence 3 time 2: july 1-december 31 1986
gbeft2r4	int	%8.0g		* quantity of beef (in grams) residence 4 time 2: july 1-december 31 1986
pltt2r1	byte	%15.0g	LABC	did you consume poultry in residence 1 time 2: july 1-december 31 1986

pltt2r2	byte	%15.0g	LABC	**did you consume poultry in residence 2 time 2: july 1-december 31 1986**
pltt2r3	byte	%15.0g	LABC	**did you consume poultry in residence 3 time 2: july 1-december 31 1986**
pltt2r4	byte	%15.0g	LABC	**did you consume poultry in residence 4 time 2: july 1-december 31 1986**
spltt2r1	byte	%20.0g	LABN	**source of poultry in residence 1 time 2: july 1-december 31 1986**
spltt2r2	byte	%20.0g	LABN	**source of poultry in residence 2 time 2: july 1-december 31 1986**
spltt2r3	byte	%20.0g	LABN	**source of poultry in residence 3 time 2: july 1-december 31 1986**
spltt2r4	byte	%20.0g	LABN	**source of poultry in residence 4 time 2: july 1-december 31 1986**
gpltt2r1	int	%8.0g		*** quantity of poultry (in grams) in residence 1 time 2: july 1-december 31 1986**
gpltt2r2	int	%8.0g		*** quantity of poultry (in grams) in residence 2 time 2: july 1-december 31 1986**
gpltt2r3	int	%8.0g		*** quantity of poultry (in grams) in residence 3 time 2: july 1-december 31 1986**
gpltt2r4	int	%8.0g		*** quantity of poultry (in grams) in residence 4 time 2: july 1-december 31 1986**
msht2r1	byte	%15.0g	LABC	**did you consume mushrooms in residence 1 time 2: july 1-december 31 1986**
msht2r2	byte	%15.0g	LABC	**did you consume mushrooms in residence 2 time 2: july 1-december 31 1986**
msht2r3	byte	%15.0g	LABC	**did you consume mushrooms in residence 3 time 2: july 1-december 31 1986**
msht2r4	byte	%15.0g	LABC	**did you consume mushrooms in residence 4 time 2: july 1-december 31 1986**
smsht2r1	byte	%20.0g	LABN	**source of mushrooms in residence 1 time 2: july 1-december 31 1986**
smsht2r2	byte	%20.0g	LABN	**source of mushrooms in residence**

				2 time 2: july 1-december 31 1986
smsht2r3	byte	%20.0g	LABN	**source of mushrooms in residence 3 time 2: july 1-december 31 1986**
smsht2r4	byte	%20.0g	LABN	**source of mushrooms in residence 4 time 2: july 1-december 31 1986**
gmsht2r1	int	%8.0g		* **quantity of mushr (in grams) per week residence 1 time 2: july1-december 31**
gmsht2r2	int	%8.0g		* **quantity of mushr (in grams) per week residence 2 time 2: july1-december 31**
gmsht2r3	int	%8.0g		* **quantity of mushr (in grams) per week residence 3 time 2: july1-december 31**
gmsht2r4	byte	%8.0g		* **quantity of mushr (in grams) per week residence 4 time 2: july1-december 31**
sett3r1	str23	%23s		* **town of residence 1 time 3: jan 1987 - dec 1990**
sett3r2	str32	%32s		* **town of residence 2 time 3: jan 1987 - dec 1990**
sett3r3	str32	%32s		* **town of residence 3 time 3: jan 1987 - dec 1990**
sett3r4	str32	%32s		* **town of residence 4 time 3: jan 1987 - dec 1990**
rait3r1	str23	%23s		* **raion of residence 1 time 3: jan 1987 - dec 1990**
rait3r2	str32	%32s		* **raion of residence 2 time 3: jan 1987 - dec 1990**
rait3r3	str32	%32s		* **raion of residence 3 time 3: jan 1987 - dec 1990**
rait3r4	str32	%32s		* **raion of residence 4 time 3: jan 1987 - dec 1990**
latdt3r1	byte	%8.0g		* **latitude in degrees residence 1 time 3: jan 1987 - dec 1990**
latdt3r2	byte	%8.0g		* **latitude in degrees residence 2 time 3: jan 1987 - dec 1990**
latdt3r3	byte	%8.0g		* **latitude in degrees residence 3 time 3: jan 1987 - dec 1990**
latdt3r4	byte	%8.0g		* **latitude in degrees residence 4 time 3: jan 1987 - dec 1990**
londt3r1	int	%8.0g		* **longitude in degrees residence 1 time 3: jan 1987 - dec 1990**
londt3r2	int	%8.0g		* **longitude in degrees residence 2 time 3: jan 1987 - dec 1990**
londt3r3	int	%8.0g		* **longitude in degrees residence 3**

				time 3: jan 1987 - dec 1990
londt3r4	byte	%8.0g		*** longitude in degrees residence 4 time 3: jan 1987 - dec 1990**
latmt3r1	byte	%8.0g		*** latitude in minutes residence 1 time 3: jan 1987 - dec 1990**
latmt3r2	byte	%8.0g		*** latitude in minutes residence 2 time 3: jan 1987 - dec 1990**
latmt3r3	byte	%8.0g		*** latitude in minutes residence 3 time 3: jan 1987 - dec 1990**
latmt3r4	byte	%8.0g		*** latitude in minutes residence 4 time 3: jan 1987 - dec 1990**
lonmt3r1	byte	%8.0g		*** longitude in minutes residence 1 time 3: jan 1987 - dec 1990**
lonmt3r2	byte	%8.0g		*** longitude in minutes residence 2 time 3: jan 1987 - dec 1990**
lonmt3r3	byte	%8.0g		*** longitude in minutes residence 3 time 3: jan 1987 - dec 1990**
lonmt3r4	byte	%8.0g		*** longitude in minutes residence 4 time 3: jan 1987 - dec 1990**
mntht3r1	byte	%10.0g		*** how long did you stay in residence 1 time 3: jan 1987 - dec 1990**
mntht3r2	byte	%10.0g		*** how long did you stay in residence 2 time 3: jan 1987 - dec 1990**
mntht3r3	byte	%10.0g		*** how long did you stay in residence 3 time 3: jan 1987 - dec 1990**
mntht3r4	byte	%10.0g		*** how long did you stay in residence 4 time 3: jan 1987 - dec 1990**
oblt3r1	byte	%31.0g	LABG	*** oblast of residence 1 time 3: jan 1987 - dec 1990**
oblt3r2	byte	%31.0g	LABG	*** oblast of residence 2 time 3: jan 1987 - dec 1990**
oblt3r3	byte	%31.0g	LABG	*** oblast of residence 3 time 3: jan 1987 - dec 1990**
oblt3r4	byte	%31.0g	LABG	*** oblast of residence 4 time 3: jan 1987 - dec 1990**
latt3r1	byte	%15.0g	LABF	*** latitude direction of residence 1 time 3: jan 1987 - dec 1990**
latt3r2	byte	%15.0g	LABF	*** latitude direction of residence 2 time 3: jan 1987 - dec 1990**
latt3r3	byte	%15.0g	LABF	*** latitude direction of residence 3 time 3: jan 1987 - dec 1990**
latt3r4	byte	%15.0g	LABF	*** latitude direction of residence 4 time 3: jan 1987 - dec 1990**
lont3r1	byte	%10.0g	lon	*** longitude direction of residence 1 time 3: jan 1987 - dec 1990**

lont3r2	byte	%10.0g	lon	* **longitude direction of residence 2 time 3: jan 1987 - dec 1990**
lont3r3	byte	%10.0g	lon	* **longitude direction of residence 3 time 3: jan 1987 - dec 1990**
lont3r4	byte	%10.0g	lon	* **longitude direction of residence 4 time 3: jan 1987 - dec 1990**
typet3r1	byte	%23.0g	LABL	**type of residence 1 time 3: jan 1987 - dec 1990**
typet3r2	byte	%23.0g	LABL	**type of residence 2 time 3: jan 1987 - dec 1990**
typet3r3	byte	%23.0g	LABL	**type of residence 3 time 3: jan 1987 - dec 1990**
typet3r4	byte	%23.0g	LABL	**type of residence 4 time 3: jan 1987 - dec 1990**
occt3r1	byte	%22.0g	LABO	**occupation while in residence 1 time 3: jan 1987 - dec 1990**
occt3r2	byte	%22.0g	LABO	**occupation while in residence 2 time 3: jan 1987 - dec 1990**
occt3r3	byte	%22.0g	LABO	**occupation while in residence 3 time 3: jan 1987 - dec 1990**
occt3r4	byte	%22.0g	LABO	**occupation while in residence 4 time 3: jan 1987 - dec 1990**
ldrt3r1	byte	%15.0g	LABC	* **did you consume liquid dairy in residence 1 time 3: jan 1987 - dec 1990**
ldrt3r2	byte	%15.0g	LABC	* **did you consume liquid dairy in residence 2 time 3: jan 1987 - dec 1990**
ldrt3r3	byte	%15.0g	LABC	* **did you consume liquid dairy in residence 3 time 3: jan 1987 - dec 1990**
ldrt3r4	byte	%15.0g	LABC	* **did you consume liquid dairy in residence 4 time 3: jan 1987 - dec 1990**
sldrt3r1	byte	%20.0g	LABN	* **source of liquid dairy in residence 1 time 3: jan 1987 - dec 1990**
sldrt3r2	byte	%20.0g	LABN	* **source of liquid dairy in residence 2 time 3: jan 1987 - dec 1990**
sldrt3r3	byte	%20.0g	LABN	* **source of liquid dairy in residence 3 time 3: jan 1987 - dec 1990**
sldrt3r4	byte	%20.0g	LABN	* **source of liquid dairy in residence 4 time 3: jan 1987 - dec 1990**
mlldt3r1	int	%8.0g		* **quantity (in ml) of liquid dairy per week residence 1 time 3: jan 1987 - dec90**

mlldt3r2	int	%8.0g		* **quantity (in ml) of liquid dairy per week residence 2 time 3: jan 1987 - dec90**
mlldt3r3	int	%8.0g		* **quantity (in ml) of liquid dairy per week residence 3 time 3: jan 1987 - dec90**
mlldt3r4	int	%8.0g		* **quantity (in ml) of liquid dairy per week residence 4 time 3: jan 1987 - dec90**
sdrt3r1	byte	%15.0g	LABC	* **did you consume solid dairy in residence 1 time 3: jan 1987 - dec 1990**
sdrt3r2	byte	%15.0g	LABC	* **did you consume solid dairy in residence 2 time 3: jan 1987 - dec 1990**
sdrt3r3	byte	%15.0g	LABC	* **did you consume solid dairy in residence 3 time 3: jan 1987 - dec 1990**
sdrt3r4	byte	%15.0g	LABC	* **did you consume solid dairy in residence 4 time 3: jan 1987 - dec 1990**
ssdrt3r1	byte	%20.0g	LABN	* **source of solid dairy in residence 1 time 3: jan 1987 - dec 1990**
ssdrt3r2	byte	%20.0g	LABN	* **source of solid dairy in residence 2 time 3: jan 1987 - dec 1990**
ssdrt3r3	byte	%20.0g	LABN	* **source of solid dairy in residence 3 time 3: jan 1987 - dec 1990**
ssdrt3r4	byte	%20.0g	LABN	* **source of solid dairy in residence 4 time 3: jan 1987 - dec 1990**
gldt3r1	int	%8.0g		* **quantity (in grams) of solid dairy per week res 1 time 3: jan 1987 - dec 1990**
gldt3r2	int	%8.0g		* **quantity (in grams) of solid dairy per week res 2 time 3: jan 1987 - dec 1990**
gldt3r3	int	%8.0g		* **quantity (in grams) of solid dairy per week res 3 time 3: jan 1987 - dec 1990**
gldt3r4	byte	%8.0g		* **quantity (in grams) of solid dairy per week res 4 time 3: jan 1987 - dec 1990**
pott3r1	byte	%15.0g	LABC	* **did you consume potatoes in residence 1 time 3: jan 1987 - dec 1990**
pott3r2	byte	%15.0g	LABC	* **did you consume potatoes in**

					residence 2 time 3: jan 1987 - dec 1990
pott3r3	byte	%15.0g	LABC	*	**did you consume potatoes in residence 3 time 3: jan 1987 - dec 1990**
pott3r4	byte	%15.0g	LABC	*	**did you consume potatoes in residence 4 time 3: jan 1987 - dec 1990**
spott3r1	byte	%20.0g	LABN		**source of potatoes in residence 1 time 3: jan 1987 - dec 1990**
spott3r2	byte	%20.0g	LABN		**source of potatoes in residence 2 time 3: jan 1987 - dec 1990**
spott3r3	byte	%20.0g	LABN		**source of potatoes in residence 3 time 3: jan 1987 - dec 1990**
spott3r4	byte	%20.0g	LABN		**source of potatoes in residence 4 time 3: jan 1987 - dec 1990**
gpott3r1	int	%8.0g		*	**quantity (in grams) of potatoes per week residence 1 time 3: jan 1987 - dec 1990**
gpott3r2	int	%8.0g		*	**quantity (in grams) of potatoes per week residence 2 time 3: jan 1987 - dec 1990**
gpott3r3	int	%8.0g		*	**quantity (in grams) of potatoes per week residence 3 time 3: jan 1987 - dec 1990**
gpott3r4	int	%8.0g		*	**quantity (in grams) of potatoes per week residence 4 time 3: jan 1987 - dec 1990**
prkt3r1	byte	%15.0g	LABC		**did you consume pork in residence 1 time 3: jan 1987 - dec 1990**
prkt3r2	byte	%15.0g	LABC		**did you consume pork in residence 2 time 3: jan 1987 - dec 1990**
prkt3r3	byte	%15.0g	LABC		**did you consume pork in residence 3 time 3: jan 1987 - dec 1990**
prkt3r4	byte	%15.0g	LABC		**did you consume pork in residence 4 time 3: jan 1987 - dec 1990**
sprkt3r1	byte	%20.0g	LABN		**source of pork in residence 1 time 3: jan 1987 - dec 1990**
sprkt3r2	byte	%20.0g	LABN		**source of pork in residence 2 time 3: jan 1987 - dec 1990**
sprkt3r3	byte	%20.0g	LABN		**source of pork in residence 3 time 3: jan 1987 - dec 1990**
sprkt3r4	byte	%20.0g	LABN		**source of pork in residence 4 time 3: jan 1987 - dec 1990**
gprkt3r1	long	%8.0g		*	**quantity (in grams) of pork per**

				week residence 1 time 3: jan 1987 - dec 1990
gprkt3r2	long	%8.0g		* quantity (in grams) of pork per week residence 2 time 3: jan 1987 - dec 1990
gprkt3r3	long	%8.0g		* quantity (in grams) of pork per week residence 3 time 3: jan 1987 - dec 1990
gprkt3r4	int	%8.0g		* quantity (in grams) of pork per week residence 4 time 3: jan 1987 - dec 1990
beft3r1	byte	%15.0g	LABC	did you consume beef in residence 1 time 3: jan 1987 - dec 1990
beft3r2	byte	%15.0g	LABC	did you consume beef in residence 2 time 3: jan 1987 - dec 1990
beft3r3	byte	%15.0g	LABC	did you consume beef in residence 3 time 3: jan 1987 - dec 1990
beft3r4	byte	%15.0g	LABC	did you consume beef in residence 4 time 3: jan 1987 - dec 1990
sbeft3r1	byte	%20.0g	LABN	source of beef in residence 1 time 3: jan 1987 - dec 1990
sbeft3r2	byte	%20.0g	LABN	source of beef in residence 2 time 3: jan 1987 - dec 1990
sbeft3r3	byte	%20.0g	LABN	source of beef in residence 3 time 3: jan 1987 - dec 1990
sbeft3r4	byte	%20.0g	LABN	source of beef in residence 4 time 3: jan 1987 - dec 1990
gbeft3r1	long	%8.0g		* quantity (in grams) of beef per week residence 1 time 3: jan 1987 - dec 1990
gbeft3r2	int	%8.0g		* quantity (in grams) of beef per week residence 2 time 3: jan 1987 - dec 1990
gbeft3r3	int	%8.0g		* quantity (in grams) of beef per week residence 3 time 3: jan 1987 - dec 1990
gbeft3r4	int	%8.0g		* quantity (in grams) of beef per week residence 4 time 3: jan 1987 - dec 1990
pltt3r1	byte	%15.0g	LABC	did you consume poultry in residence 1 time 3: jan 1987 - dec 1990
pltt3r2	byte	%15.0g	LABC	did you consume poultry in residence 2 time 3: jan 1987 - dec 1990

pltt3r3	byte	%15.0g	LABC	**did you consume poultry in residence 3 time 3: jan 1987 - dec 1990**
pltt3r4	byte	%15.0g	LABC	**did you consume poultry in residence 4 time 3: jan 1987 - dec 1990**
spltt3r1	byte	%20.0g	LABN	**source of paultry in residence 1 time 3: jan 1987 - dec 1990**
spltt3r2	byte	%20.0g	LABN	**source of paultry in residence 2 time 3: jan 1987 - dec 1990**
spltt3r3	byte	%20.0g	LABN	**source of paultry in residence 3 time 3: jan 1987 - dec 1990**
spltt3r4	byte	%20.0g	LABN	**source of paultry in residence 4 time 3: jan 1987 - dec 1990**
gpltt3r1	long	%8.0g		* **quantity (in grams) of paultry per week residence 1 time 3: jan 1987 - dec 1990**
gpltt3r2	int	%8.0g		* **quantity (in grams) of paultry per week residence 2 time 3: jan 1987 - dec 1990**
gpltt3r3	int	%8.0g		* **quantity (in grams) of paultry per week residence 3 time 3: jan 1987 - dec 1990**
gpltt3r4	int	%8.0g		* **quantity (in grams) of paultry per week residence 4 time 3: jan 1987 - dec 1990**
msht3r1	byte	%15.0g	LABC	**did you consume mushrooms in residence 1 time 3: jan 1987 - dec 1990**
msht3r2	byte	%15.0g	LABC	**did you consume mushrooms in residence 2 time 3: jan 1987 - dec 1990**
msht3r3	byte	%15.0g	LABC	**did you consume mushrooms in residence 3 time 3: jan 1987 - dec 1990**
msht3r4	byte	%15.0g	LABC	**did you consume mushrooms in residence 4 time 3: jan 1987 - dec 1990**
smsht3r1	byte	%20.0g	LABN	**source of mushrooms in residence 1 time 3: jan 1987 - dec 1990**
smsht3r2	byte	%20.0g	LABN	**source of mushrooms in residence 2 time 3: jan 1987 - dec 1990**
smsht3r3	byte	%20.0g	LABN	**source of mushrooms in residence 3 time 3: jan 1987 - dec 1990**
smsht3r4	byte	%20.0g	LABN	**source of mushrooms in residence 4 time 3: jan 1987 - dec 1990**
gmsht3r1	int	%8.0g		* **quantity (in grams) of mushroom per week residence 1 time 3: jan 1987 - dec 1990**

gmsht3r2	int	%8.0g	* **quantity (in grams) of mushroom per week residence 2 time 3: jan 1987 - dec 1990**
gmsht3r3	int	%8.0g	* **quantity (in grams) of mushroom per week residence 3 time 3: jan 1987 - dec 1990**
gmsht3r4	byte	%8.0g	* **quantity (in grams) of mushroom per week residence 4 time 3: jan 1987 - dec 1990**
sett4r1	str23	%23s	* **town of residence 1 time 4: jan 1991-now**
sett4r2	str32	%32s	**town of residence 2 time 4: jan 1991-now**
sett4r3	str32	%32s	**town of residence 3 time 4: jan 1991-now**
sett4r4	str32	%32s	**town of residence 4 time 4: jan 1991-now**
rait4r1	str23	%23s	**raion of residence 1 time 4: jan 1991-now**
rait4r2	str32	%32s	**raion of residence 2 time 4: jan1991-now**
rait4r3	str32	%32s	**raion of residence 3 time 4: jan1991-now**
rait4r4	str32	%32s	**raion of residence 4 time 4: jan 1991-now**
latdt4r1	byte	%8.0g	* **latitude in degrees residence 1 time 4: jan 1991-now**
latdt4r2	byte	%8.0g	* **latitude in degrees residence 2 time 4: jan 1991-now**
latdt4r3	byte	%8.0g	* **latitude in degrees residence 3 time 4: jan 1991-now**
latdt4r4	byte	%8.0g	* **latitude in degrees residence 4 time 4: jan 1991-now**
londt4r1	int	%8.0g	* **longitude in degrees residence 1 time 4: jan 1991-now**
londt4r2	int	%8.0g	* **longitude in degrees residence 2 time 4: jan 1991-now**
londt4r3	byte	%8.0g	* **longitude in degrees residence 3 time 4: jan 1991-now**
londt4r4	byte	%8.0g	* **longitude in degrees residence 4 time 4: jan 1991-now**
latmt4r1	byte	%8.0g	* **latitude in minutes residence 1 time 4: jan 1991-now**
latmt4r2	byte	%8.0g	* **latitude in minutes residence 2 time 4: jan 1991-now**
latmt4r3	byte	%8.0g	* **latitude in minutes residence 3 time 4: jan 1991-now**
latmt4r4	byte	%8.0g	* **latitude in minutes residence 4 time 4: jan 1991-now**

lonmt4r1	byte	%8.0g		* **longitude in minutes residence 1 time 4: jan 1991-now**
lonmt4r2	byte	%8.0g		* **longitude in minutes residence 2 time 4: jan 1991-now**
lonmt4r3	byte	%8.0g		* **longitude in minutes residence 3 time 4: jan 1991-now**
lonmt4r4	byte	%8.0g		* **longitude in minutes residence 4 time 4: jan 1991-now**
mntht4r1	int	%8.0g		* **how long did you stay in residence 1 time 4: jan 1991-now**
mntht4r2	int	%8.0g		* **how long did you stay in residence 2 time 4: jan 1991-now**
mntht4r3	int	%8.0g		* **how long did you stay in residence 3 time 4: jan 1991-now**
mntht4r4	byte	%8.0g		* **how long did you stay in residence 4 time 4: jan 1991-now**
oblt4r1	byte	%31.0g	LABG	**oblast of the residence 1 time 4: jan 1991-now**
oblt4r2	byte	%31.0g	LABG	**oblast of the residence 2 time 4: jan 1991-now**
oblt4r3	byte	%31.0g	LABG	**oblast of the residence 3 time 4: jan 1991-now**
oblt4r4	byte	%31.0g	LABG	**oblast of the residence 4 time 4: jan 1991-now**
latt4r1	byte	%15.0g	LABF	**direction of latitude of residence 1 time 4: jan 1991-now**
latt4r2	byte	%15.0g	LABF	**direction of latitude of residence 2 time 4: jan 1991-now**
latt4r3	byte	%15.0g	LABF	**direction of latitude of residence 3 time 4: jan 1991-now**
latt4r4	byte	%15.0g	LABF	**direction of latitude of residence 4 time 4: jan 1991-now**
lont4r1	byte	%10.0g	lon	**direction of longitude of residence 1 time 4: jan 1991-now**
lont4r2	byte	%10.0g	lon	**direction of longitude of residence 2 time 4: jan 1991-now**
lont4r3	byte	%10.0g	lon	**direction of longitude of residence 3 time 4: jan 1991-now**

lont4r4	byte	%10.0g	lon	**direction of longitude of residence 4 time 4: jan 1991-now**
typet4r1	byte	%23.0g	LABL	**type of residence 1 time 4: jan 1991-now**
typet4r2	byte	%23.0g	LABL	**type of residence 2 time 4: jan 1991-now**
typet4r3	byte	%23.0g	LABL	**type of residence 3 time 4: jan 1991-now**
typet4r4	byte	%23.0g	LABL	**type of residence 4 time 4: jan 1991-now**
occt4r1	byte	%22.0g	LABM	**ocupation when in residence 1 time 4: jan 1991-now**
occt4r2	byte	%22.0g	LABM	**ocupation when in residence 2 time 4: jan 1991-now**
occt4r3	byte	%22.0g	LABM	**ocupation when in residence 3 time 4: jan 1991-now**
occt4r4	byte	%22.0g	LABM	**ocupation when in residence 4 time 4: jan 1991-now**
ldrt4r1	byte	%15.0g	LABC	**did you consume liquid dairy products in residence 1 time 4: jan 1991-now**
ldrt4r2	byte	%15.0g	LABC	**did you consume liquid dairy products in residence 2 time 4: jan 1991-now**
ldrt4r3	byte	%15.0g	LABC	**did you consume liquid dairy products in residence 3 time 4: jan 1991-now**
ldrt4r4	byte	%15.0g	LABC	**did you consume liquid dairy products in residence 4 time 4: jan 1991-now**
sldrt4r1	byte	%20.0g	LABN	*** source of liquid dairy products in residence 1 time 4: jan 1991-now**
sldrt4r2	byte	%20.0g	LABN	*** source of liquid dairy products in residence 2 time 4: jan 1991-now**
sldrt4r3	byte	%20.0g	LABN	*** source of liquid dairy products in residence 3 time 4: jan 1991-now**
sldrt4r4	byte	%20.0g	LABN	*** source of liquid dairy products in residence 4 time 4: jan 1991-now**
mlldt4r1	int	%8.0g		*** quantity (in ml) of liquid dairy products in residence 1 time 4: jan 1991-now**
mlldt4r2	int	%8.0g		*** quantity (in ml) of liquid dairy products in residence 2 time 4: jan 1991-now**

mlldt4r3	int	%8.0g		* **quantity (in ml) of liquid dairy products in residence 3 time 4: jan 1991-now**
mlldt4r4	int	%8.0g		* **quantity (in ml) of liquid dairy products in residence 4 time 4: jan 1991-now**
sdrt4r1	byte	%15.0g	LABC	* **did you consume solid dairy products in residence 1 time 4: jan 1991-now**
sdrt4r2	byte	%15.0g	LABC	* **did you consume solid dairy products in residence 2 time 4: jan 1991-now**
sdrt4r3	byte	%15.0g	LABC	* **did you consume solid dairy products in residence 3 time 4: jan 1991-now**
sdrt4r4	byte	%15.0g	LABC	* **did you consume solid dairy products in residence 4 time 4: jan 1991-now**
ssdrt4r1	byte	%20.0g	LABN	* **source of solid dairy products in residence 1 time 4: jan 1991-now**
ssdrt4r2	byte	%20.0g	LABN	* **source of solid dairy products in residence 2 time 4: jan 1991-now**
ssdrt4r3	byte	%20.0g	LABN	* **source of solid dairy products in residence 3 time 4: jan 1991-now**
ssdrt4r4	byte	%20.0g	LABN	* **source of solid dairy products in residence 4 time 4: jan 1991-now**
gldt4r1	long	%8.0g		* **quantity (in grams) of solid dairy in residence 1 time 4: jan 1991-now**
gldt4r2	long	%8.0g		* **quantity (in grams) of solid dairy in residence 2 time 4: jan 1991-now**
gldt4r3	long	%8.0g		* **quantity (in grams) of solid dairy in residence 3 time 4: jan 1991-now**
gldt4r4	int	%8.0g		* **quantity (in grams) of solid dairy in residence 4 time 4: jan 1991-now**
pott4r1	byte	%15.0g	LABC	**did you consume potatoes in residence 1 time 4: jan 1991-now**
pott4r2	byte	%15.0g	LABC	**did you consume potatoes in residence 2 time 4: jan 1991-now**
pott4r3	byte	%15.0g	LABC	**did you consume potatoes in**

				residence 3 time 4: jan 1991-now
pott4r4	byte	%15.0g	LABC	did you consume potatoes in residence 4 time 4: jan 1991-now
spott4r1	byte	%20.0g	LABN	* source of potatoes in residence 1 time 4: jan 1991-now
spott4r2	byte	%20.0g	LABN	* source of potatoes in residence 2 time 4: jan 1991-now
spott4r3	byte	%20.0g	LABN	* source of potatoes in residence 3 time 4: jan 1991-now
spott4r4	byte	%20.0g	LABN	* source of potatoes in residence 4 time 4: jan 1991-now
gpott4r1	long	%8.0g		* quantity of potatoes (in grams) per week in residence 1 time 4: jan 1991-now
gpott4r2	long	%8.0g		* quantity of potatoes (in grams) per week in residence 2 time 4: jan 1991-now
gpott4r3	int	%8.0g		* quantity of potatoes (in grams) per week in residence 3 time 4: jan 1991-now
gpott4r4	int	%8.0g		* quantity of potatoes (in grams) per week in residence 4 time 4: jan 1991-now
prkt4r1	byte	%15.0g	LABC	did you consume pork in residence 1 time 4: jan 1991-now
prkt4r2	byte	%15.0g	LABC	did you consume pork in residence 2 time 4: jan 1991-now
prkt4r3	byte	%15.0g	LABC	did you consume pork in residence 3 time 4: jan 1991-now
prkt4r4	byte	%15.0g	LABC	did you consume pork in residence 4 time 4: jan 1991-now
sprkt4r1	byte	%20.0g	LABN	* source of pork in residence 1 time 4: jan 1991-now
sprkt4r2	byte	%20.0g	LABN	* source of pork in residence 2 time 4: jan 1991-now
sprkt4r3	byte	%20.0g	LABN	* source of pork in residence 3 time 4: jan 1991-now
sprkt4r4	byte	%20.0g	LABN	* source of pork in residence 4 time 4: jan 1991-now
gprkt4r1	int	%8.0g		* quantity of pork (in grams) per week in residence 1 time 4: jan 1991-now
gprkt4r2	int	%8.0g		* quantity of pork (in grams) per

				week in residence 2 time 4: jan 1991-now
gprkt4r3	int	%8.0g		* quantity of pork (in grams) per week in residence 3 time 4: jan 1991-now
gprkt4r4	int	%8.0g		* quantity of pork (in grams) per week in residence 4 time 4: jan 1991-now
beft4r1	byte	%15.0g	LABC	did you consume beef in residence 1 time 4: jan 1991-now
beft4r2	byte	%15.0g	LABC	did you consume beef in residence 2 time 4: jan 1991-now
beft4r3	byte	%15.0g	LABC	did you consume beef in residence 3 time 4: jan 1991-now
beft4r4	byte	%15.0g	LABC	did you consume beef in residence 4 time 4: jan 1991-now
sbeft4r1	byte	%20.0g	LABN	source of beef in residence 1 in time 4: jan 1991-now
sbeft4r2	byte	%20.0g	LABN	source of beef in residence 2 in time 4: jan 1991-now
sbeft4r3	byte	%20.0g	LABN	source of beef in residence 3 in time 4: jan 1991-now
sbeft4r4	byte	%20.0g	LABN	source of beef in residence 4 in time 4: jan 1991-now
gbeft4r1	long	%8.0g		* quantity of beef (in grams) per week in residence 1 in time 4: jan 1991-now
gbeft4r2	int	%8.0g		* quantity of beef (in grams) per week in residence 2 in time 4: jan 1991-now
gbeft4r3	int	%8.0g		* quantity of beef (in grams) per week in residence 3 in time 4: jan 1991-now
gbeft4r4	int	%8.0g		* quantity of beef (in grams) per week in residence 4 in time 4: jan 1991-now
pltt4r1	byte	%15.0g	LABC	* did you consume poultry in residence 1 in time 4: jan 1991-now
pltt4r2	byte	%15.0g	LABC	* did you consume poultry in residence 2 in time 4: jan 1991-now
pltt4r3	byte	%15.0g	LABC	* did you consume poultry in residence 3 in time 4: jan 1991-now

pltt4r4	byte	%15.0g	LABC	* **did you consume poultry in residence 4 in time 4: jan 1991-now**
spltt4r1	byte	%20.0g	LABN	**source of paultry in residence 1 in time 4: jan 1991-now**
spltt4r2	byte	%20.0g	LABN	**source of paultry in residence 2 in time 4: jan 1991-now**
spltt4r3	byte	%20.0g	LABN	**source of paultry in residence 3 in time 4: jan 1991-now**
spltt4r4	byte	%20.0g	LABN	**source of paultry in residence 4 in time 4: jan 1991-now**
gpltt4r1	long	%8.0g		* **quantity of paultry (in grams) per week in residence 1 in time 4: jan 1991-now**
gpltt4r2	int	%8.0g		* **quantity of paultry (in grams) per week in residence 2 in time 4: jan 1991-now**
gpltt4r3	int	%8.0g		* **quantity of paultry (in grams) per week in residence 3 in time 4: jan 1991-now**
gpltt4r4	int	%8.0g		* **quantity of paultry (in grams) per week in residence 4 in time 4: jan 1991-now**
msht4r1	byte	%15.0g	LABC	* **did you consume mushrooms in residence 1 in time 4: jan 1991-now**
msht4r2	byte	%15.0g	LABC	* **did you consume mushrooms in residence 2 in time 4: jan 1991-now**
msht4r3	byte	%15.0g	LABC	* **did you consume mushrooms in residence 3 in time 4: jan 1991-now**
msht4r4	byte	%15.0g	LABC	* **did you consume mushrooms in residence 4 in time 4: jan 1991-now**
smsht4r1	byte	%20.0g	LABN	**source of mushrooms in residence 1 in time 4: jan 1991-now**
smsht4r2	byte	%20.0g	LABN	**source of mushrooms in residence 2 in time 4: jan 1991-now**
smsht4r3	byte	%20.0g	LABN	**source of mushrooms in residence 2 in time 4: jan 1991-now**
smsht4r4	byte	%20.0g	LABN	**source of mushrooms in residence 3 in time 4: jan 1991-now**
gmsht4r1	int	%8.0g		* **quantity of mushroom (in grams) per week in residence 1 in time 4: jan 1991-now**
gmsht4r2	int	%8.0g		* **quantity of mushroom (in grams) per week in residence 2 in time 4: jan 1991-now**

gmsht4r3	int	%8.0g		* **quantity of mushroom (in grams) per week in residence 3 in time 4: jan 1991-now**
gmsht4r4	byte	%8.0g		* **quantity of mushroom (in grams) per week in residence 4 in time 4: jan 1991-now**
csflfrnd	byte	%15.0g	LABB	* **let your feelings out to a friend?**
csrearr	byte	%15.0g	LABB	* **rearranged things around you so that your problem had the best chance of being s**
csbrstrm	byte	%15.0g	LABB	**brainstormed all possible solutions before deciding what to do?**
csdist	byte	%15.0g	LABB	**tried to distract yourself from the problem?**
csaccsy	byte	%15.0g	LABB	**accepted sympathy and understanding from someone?**
cskpothe	byte	%15.0g	LABB	**did all you could to keep others from seeing how bad things really were?**
cstkpeop	byte	%15.0g	LABB	* **talked to people about the situation because talking about it helped you to feel**
cssetgoa	byte	%15.0g	LABB	**set some goals for yourself to deal with the situation?**
cswghopt	byte	%15.0g	LABB	**weighed your options very carefully?**
csddream	byte	%15.0g	LABB	**daydreamed about a better time?**
csdifsov	byte	%15.0g	LABB	**tried different ways to solve the problem until you found one that worked?**
cscofear	byte	%15.0g	LABB	**confided your fears and worries to a friend or a relative?**
csalone	byte	%15.0g	LABB	**spent more time than usual alone?**
cstldpep	byte	%15.0g	LABB	* **told people about the situation because just talking about it helped you to come**
csstngs	byte	%15.0g	LABB	**thought about what needed to be done to straighten things out?**
csflatt	byte	%15.0g	LABB	**turned your full attention to solving the problem?**
csactpl	byte	%15.0g	LABB	**formed a plan of action in your mind?**
cstv	byte	%15.0g	LABB	**watched television more than usual?**
csfrndpr	byte	%15.0g	LABB	**went to someone (friend or professional) in order to help**

				you feel better?
csstndfr	byte	%15.0g	LABB	stood firm and fought for what you wanted in the situation?
csavdppl	byte	%15.0g	LABB	avoided being with people in general?
cshbspor	byte	%15.0g	LABB	buried yourself in a hobby or sports activity to avoid the problem?
csfriend	byte	%15.0g	LABB	went to a friend to help you feel better about the problem?
csadvice	byte	%15.0g	LABB	went to a friend for advice on how to change the situation?
csacsymp	byte	%15.0g	LABB	accepted sympathy and understanding from friends who had the same problem?
cssleep	byte	%15.0g	LABB	slept more than usual?
csfantsy	byte	%15.0g	LABB	fantasized about how things could have been different?
csidnovl	byte	%15.0g	LABB	identified with characters in novels or movies?
cssolvpr	byte	%15.0g	LABB	tried to solve the problem?
cslvbe	byte	%15.0g	LABB	wished that people would just leave you alone?
csachelp	byte	%15.0g	LABB	accepted help from a friend or relative?
csreasur	byte	%15.0g	LABB	sought reassurance from those who know you best?
csplnact	byte	%15.0g	LABB	tried to carefully plan a course of action rather than acting on impulse?
psolv	byte	%8.0g		subscale i = "problem solving"
socsup	byte	%8.0g		subscale ii = "seeking social support"
avoid	byte	%8.0g		subscale iii = "avoidance"
hptired	byte	%12.0g	HPLabel	iím tired all the time
hppainit	byte	%12.0g	HPLabel	i have pain at night
hpgtdwn	byte	%12.0g	HPLabel	things are getting me down
hpunpain	byte	%12.0g	HPLabel	i have unbearable pain
hpslepil	byte	%12.0g	HPLabel	i take pills to help me sleep
hpnojoy	byte	%12.0g	HPLabel	iíve forgotten what itís like to enjoy myself
hponedge	byte	%12.0g	HPLabel	iím feeling on edge
hpcngpos	byte	%12.0g	HPLabel	i find it painful to change position
hplonely	byte	%12.0g	HPLabel	i feel lonely
hpwlkinr	byte	%12.0g	HPLabel	i can walk about only indoors
hpnobend	byte	%12.0g	HPLabel	i find it hard to bend
hpalefrt	byte	%12.0g	HPLabel	everything is an effort
hpwkgrly	byte	%12.0g	HPLabel	iím waking up in the early hours

				of the morning
hpnowlk	byte	%12.0g	HPLabel	iím unable to walk at all
hphrdcnt	byte	%12.0g	HPLabel	iím finding it hard to make contact with people
hpdaydrg	byte	%12.0g	HPLabel	the days seem to drag
hpstairs	byte	%12.0g	HPLabel	i have trouble getting up and down stairs and steps
hphrdrch	byte	%12.0g	HPLabel	i find it hard to reach for things
hpwlkpai	byte	%12.0g	HPLabel	iím in pain when i walk
hptemper	byte	%12.0g	HPLabel	i lose my temper easily these days
hpnoclse	byte	%12.0g	HPLabel	i feel like there is nobody that i am close to
hpawake	byte	%12.0g	HPLabel	i lie awake for most of the night
hplocntr	byte	%12.0g	HPLabel	i feel as if iím losing control
hpstdpai	byte	%12.0g	HPLabel	iím in pain when iím standing
hphardre	byte	%12.0g	HPLabel	i find it hard to get dressed by myself
hpnoergy	byte	%12.0g	HPLabel	i soon run out of energy
hphrdstd	byte	%12.0g	HPLabel	i find it hard to stand for long (e.g. at the kitchen sink, waiting in line)
hpconpai	byte	%12.0g	HPLabel	iím in constant pain.
hplgslee	byte	%12.0g	HPLabel	it takes me a long time to get to sleep.
hpburden	byte	%12.0g	HPLabel	i feel i am a burden to people.
hpwryawk	byte	%12.0g	HPLabel	worry is keeping me awake at night.
hpnolive	byte	%12.0g	HPLabel	i feel that life is not worth living.
hpbadslp	byte	%12.0g	HPLabel	i sleep badly at night.
hpgtalng	byte	%12.0g	HPLabel	iím finding it hard to get along with people.
hphlpwlk	byte	%12.0g	HPLabel	i need help to walk about outside (e.g. a walking aid or someone to support me).
hpstrspn	byte	%12.0g	HPLabel	iím in pain when going up or down stairs.
hpamdprs	byte	%12.0g	HPLabel	i wake up feeling depressed
hpsitpai	byte	%12.0g	HPLabel	iím in pain when iím sitting.
enlev	double	%9.0g		energy level (el)
pain	double	%9.0g		pain (p)
emreac	double	%9.0g		emotional reaction (er)
sleep	double	%9.0g		sleep (s)
socisol	double	%9.0g		social isolation (si)
phabil	double	%9.0g		physical abilities (pa)
hpprbwk	byte	%12.0g	HPLabel	health causes problems at work

hpprbcln	byte	%12.0g	HPLabel	*	**health causes problems taking care of home**
hpprobsc	byte	%12.0g	HPLabel		**health causing problems with social life**
hpprobho	byte	%12.0g	HPLabel		**health causing problems with home life**
hpprosex	byte	%12.0g	HPLabel		**health cauing problems with sex life**
hpproint	byte	%12.0g	HPLabel		**health causing problems with interests and hobbies**
hpprovac	byte	%12.0g	HPLabel		**health causing problems with vacations**
hthprof	byte	%8.0g			**health profile subscale**
ffriend	byte	%18.0g	LABD	*	**before the chornobyl event in 1986 i had more close friends than i have now.**
fchorn	byte	%18.0g	LABD	*	**if something happens that reminds me of chornobyl. i become very distressed and**
fguilt	byte	%18.0g	LABD		**i feel guilty over things i did around the time of chornobyl**
fpush	byte	%18.0g	LABD	*	**since the event i find that if someone pushes me too far, i am likely to become**
fnight	byte	%18.0g	LABD		**i have nightmares about chornobyl.**
fdead	byte	%18.0g	LABD	*	**when i think of some of the things i did at the time of chornobyl i wish i were**
fnofeel	byte	%18.0g	LABD		**since chornobyl, it seems as if i have no feelings.**
flived	byte	%18.0g	LABD		**i wonder why i lived when others died.**
fsituat	byte	%18.0g	LABD		**being in certain situations makes me feel as though i am back in the event.**
flaugh	byte	%18.0g	LABD	*	**since chornobyl it seems that i do not laugh or cry about the same things that**
fnoise	byte	%18.0g	LABD		**since chornobyl unexpected noises make me jump.**
falcoh	byte	%18.0g	LABD	*	**i have used alcohol or other drugs to help me sleep or to make me forget the eve**
fafraid	byte	%18.0g	LABD		**since chornobyl i have been afraid to sleep at night**
fstayaw	byte	%18.0g	LABD	*	**i try to stay away from anything that will remind me of things which happened du**

frememb	byte	%18.0g	LABD	**i have difficulty remembering some things which happened during the event.**
fanxio	byte	%18.0g	LABD	**if something happens that reminds me of chornobyl, i get anxious and panicky.**
fremind	byte	%18.0g	LABD	**things i see or hear often remind me of the chornobyl event.**
fdontth	byte	%18.0g	LABD	**i often think about the event even when i donít mean to.**
femot	byte	%18.0g	LABD	**i am able to get emotionally close to others.**
fkill	byte	%18.0g	LABD	**lately i have felt like killing myself.**
fasleep	byte	%18.0g	LABD	**i fall asleep stay asleep and awaken only when the alarm goes off.**
fdream	byte	%18.0g	LABD	* **my dreams are so real that i awaken in a cold sweat and force myself to stay awa**
fgoon	byte	%18.0g	LABD	**i feel like i cannot go on.**
fenjoy	byte	%18.0g	LABD	**i still enjoy doing many things that i used to enjoy.**
fconcen	byte	%18.0g	LABD	**i have trouble concentrating on tasks.**
fcomp	byte	%18.0g	LABD	**i enjoy the company of others.**
ffallas	byte	%18.0g	LABD	**i fall asleep easily at night.**
funder	byte	%18.0g	LABD	**no one understands how i feel, not even my family.**
fcool	byte	%18.0g	LABD	**lately, i lose my cool and explode of minor everyday things.**
falert	byte	%18.0g	LABD	**i feel alert and on guard much of the time.**
instsym	byte	%8.0g		**intrusion symptom score**
avoisym	byte	%8.0g		**avoidance symptom score**
aroussym	byte	%8.0g		**arousal symptom score**
suicsym	byte	%8.0g		**suicidal/guilt score**
bsnerv	byte	%20.0g	LABE	**nervousness or shakiness inside**
bsfaint	byte	%20.0g	LABE	**faintness or dizziness**
bsidea	byte	%20.0g	LABE	**the idea that someone else can control your thoughts**
bsothers	byte	%20.0g	LABE	**feeling others are to blame for most of your troubles**
bsnomem	byte	%20.0g	LABE	**trouble remembering things**
bsannoy	byte	%20.0g	LABE	**feeling easily annoyed or irritated**
bspain	byte	%20.0g	LABE	**pains in the heart or chest**

bsafraid	byte	%20.0g	LABE	**feeling afraid in open spaces**
bsendlif	byte	%20.0g	LABE	**thoughts of ending your life**
bstrust	byte	%20.0g	LABE	**feeling that most people cannot be trusted**
bseat	byte	%20.0g	LABE	**poor appetite**
bsscared	byte	%20.0g	LABE	**suddenly scared for no reason**
bstemper	byte	%20.0g	LABE	**temper outbursts that you could not control**
bslonely	byte	%20.0g	LABE	**feeling lonely even when you are with people**
bsblock	byte	%20.0g	LABE	**feeling blocked in getting things done**
bsalone	byte	%20.0g	LABE	**feeling lonely**
bsblue	byte	%20.0g	LABE	**feeling blue**
bsnoint	byte	%20.0g	LABE	**feeling no interest in things**
bsfear	byte	%20.0g	LABE	**feeling fearful**
bshurt	byte	%20.0g	LABE	**your feelings being easily hurt**
bsnofrd	byte	%20.0g	LABE	**feeling that people are unfriendly or dislike you**
bsinf	byte	%20.0g	LABE	**feeling inferior to others**
bsnausea	byte	%20.0g	LABE	**nausea or upset stomach**
bswatch	byte	%20.0g	LABE	**feeling that you are watched or talked about by others**
bsnoslp	byte	%20.0g	LABE	**trouble falling asleep**
bscheck	byte	%20.0g	LABE	**having to check and double-check what you do**
bsnodec	byte	%20.0g	LABE	**difficulty making decisions**
bsnotrav	byte	%20.0g	LABE	**feeling afraid to travel on buses,undergrounds or trains**
bsnobrth	byte	%20.0g	LABE	**trouble getting your breath**
bshtcold	byte	%20.0g	LABE	**hot or cold spells**
bsavoid	byte	%20.0g	LABE	**having to avoid certain things, places, or activities because they frighten you**
bsblank	byte	%20.0g	LABE	**your mind going blank**
bsnumb	byte	%20.0g	LABE	**numbness or tingling in parts of your body**
bspunish	byte	%20.0g	LABE	**the idea that you should be punished for your sins**
bshoples	byte	%20.0g	LABE	**feeling hopeless about the future**
bsnothk	byte	%20.0g	LABE	**trouble concentrating**
bsweak	byte	%20.0g	LABE	**feeling weak in parts of your body**
bstense	byte	%20.0g	LABE	**feeling tense or keyed up**
bsdeath	byte	%20.0g	LABE	**thoughts of death or dying**
bsbeat	byte	%20.0g	LABE	**having urges to beat, injure or harm someone**
bsbreak	byte	%20.0g	LABE	**having urges to break or smash**

				things
bsconsc	byte	%20.0g	LABE	**feeling very self-conscious with others**
bsuneasy	byte	%20.0g	LABE	**feeling uneasy in crowds**
bsnoclse	byte	%20.0g	LABE	**never feeling close to another person**
bspanic	byte	%20.0g	LABE	**spells of terror or panic**
bsargue	byte	%20.0g	LABE	**getting into frequent arguments**
bsnerv_a	byte	%20.0g	LABE	**feeling nervous when you are left alone**
bscredit	byte	%20.0g	LABE	**others not giving you proper credit for your achievements**
bsnosit	byte	%20.0g	LABE	**feeling so restless you couldnít sit still**
bsworth	byte	%20.0g	LABE	**feelings of worthlessness**
bsadvan	byte	%20.0g	LABE	**feeling that people will take advantage of you if you let them**
bsguilt	byte	%20.0g	LABE	**feeling of guilt**
bswrong	byte	%20.0g	LABE	**the idea that something is wrong with your mind**
possym	int	%8.0g		**positive symptom total**
somatiz	byte	%8.0g		**somatization**
obsess	byte	%8.0g		**obsession-compulsion**
interper	byte	%8.0g		**interpersonal sensitivity**
depress	byte	%8.0g		**depression**
anxiety	byte	%8.0g		**anxiety**
hostilit	byte	%8.0g		**hostility**
phobanx	byte	%8.0g		**phobic anxiety**
paran	byte	%8.0g		**paranoid ideation**
psychot	byte	%8.0g		**psychoticism**
globseve	double	%9.0g		**global severity**
CSprbslv	byte	%9.0g		**Coping Problem Solving Subscale**
CSsocspt	byte	%9.0g		**Coping social support subscale**
CSavoid	byte	%9.0g		**Coping Avoidance subscale**
WHP1el	double	%9.0g		
WHP2p	double	%9.0g		
WHP3er	double	%9.0g		
WHP4p	double	%9.0g		
WHP5s	double	%9.0g		
WHP6er	double	%9.0g		
WHP7er	double	%9.0g		
WHP8p	double	%9.0g		
WHP9si	double	%9.0g		
WHP10pa	double	%9.0g		
WHP11pa	double	%9.0g		
WHP12el	double	%9.0g		
WHP13s	double	%9.0g		
WHP14pa	double	%9.0g		

WHP15si	double	%9.0g		
WHP16er	double	%9.0g		
WHP17pa	double	%9.0g		
WHP18pa	double	%9.0g		
WHP19p	double	%9.0g		
WHP20er	double	%9.0g		
WHP21si	double	%9.0g		
WHP22s	double	%9.0g		
WHP23er	double	%9.0g		
WHP24p	double	%9.0g		
WHP25pa	double	%9.0g		
WHP26el	byte	%9.0g		
WHP27pa	double	%9.0g		
WHP28ps	double	%9.0g		
WHP29s	double	%9.0g		
WHP30si	double	%9.0g		
WHP31er	double	%9.0g		
WHP32er	double	%9.0g		
WHP33s	double	%9.0g		
WHP34si	double	%9.0g		
WHP35pa	double	%9.0g		
WHP36p	double	%9.0g		
WHP37er	double	%9.0g		
WHP38p	double	%9.0g		
whp23er	double	%9.0g		
WHPel	double	%9.0g		**Wtd Health Profile Pt 1 Energy Level Subscale**
WHPpain	double	%9.0g		**Wtd Health Profile Pain Pt 1 subscale**
WHPer	double	%9.0g		**Wtd Health Profile Emotional reaction Pt 1 subscale**
WHPsleep	double	%9.0g		**Wtd Health Profile Sleep Pt 1 subscale**
WHPsociso	double	%9.0g		**Wtd Health Profile Social Isolation Pt 1 subscale**
WHPpa	double	%9.0g		**Wtd Health Profile Physical Ability Pt 1 Subscale**
HP2work	byte	%9.0g	hp2fmt	**Nottingham Health profile subscale Part2: paid employment**
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**
HP2pbfhm	byte	%9.0g	hp2fmt	**Hlth profile Pt2: Hlth causing probs with family members at home**
HP2sxlife	byte	%9.0g	hp2fmt	**Hlth profile Pt2: Hlth causing probs with sex life**

HP2inthob	byte	%9.0g	hp2fmt	**Hlth profile Pt2: Hlth probs interfering with interests & hobbies**
HP2vacatn	byte	%9.0g	hp2fmt	**Hlth profile Pt2: Hlth probs interfering with vacations**
BSItotal	int	%9.0g		**Basic symptom inventory total scale score**
lBSItotal	double	%9.0g		**Ln(bsItotal)**
BSIposymp	int	%9.0g		**Brief Symptom inventory positive symptom total subscale**
BSIglobsi	double	%9.0g		**Brief Symptom Inventory Global Severity (mean) Index**
BSIsoma	byte	%9.0g		**Basic symptom inventory obsessive compulsive subscale**
BSIoc	byte	%9.0g		**Basic Symptom Inventory Obsessive compulsive subscale**
BSIips	byte	%9.0g		**Basic symptom invenstory interpersonal sensitivity subscale**
BSIdep	byte	%9.0g		**Basic symptom inventory Depression subscale**
BSIanx	byte	%9.0g		**Basic symptom inventory Anxiety subscale**
BSIphanx	byte	%9.0g		**Basic symptom inventory phobic anxiety subscale**
BSIhos	byte	%9.0g		**Basic symptom invenstory hostility subscale**
BSIpar	byte	%9.0g		**Basic symptom invenstory Paranoia subscale**
BSIpsyc	byte	%9.0g		**Basic symptom inventory Psychoticism subscale score**
testage1	double	%9.0g		
yrageck	double	%9.0g		
iday	byte	%9.0g		
idates	str10	%10s		
idate	int	%d		**Stata date of interview**
bday	byte	%9.0g		
bdates	str10	%10s		**String birthdate**
bdate	long	%d		**Stata birthdate of respondent**
moage	int	%9.0g		**Age of respondent in months**
yrage	double	%9.0g		**Computed age of respondent**
agerr	double	%9.0g		**Error in age recording?**
fenjoyr	byte	%15.0g	fnjr	**I no longer enjoy many of the things I used to enjoy (reversal of fenjoy)**
fallasr	byte	%15.0g	fnjr	**I do not fall alseep easily at night (reversal of ffallas)**
MiPTSD	byte	%9.0g		**Misssissipi post-traumatic stress disorder scale**

apprxage	int	%9.0g		
iyr	int	%9.0g		**Interview year**
byr	int	%9.0g		**Birth year**
bmo	byte	%9.0g		**Birth month**
imo	byte	%9.0g		**Interview month**
agemoadj	byte	%9.0g		**Adjustment to age in months**
pos	byte	%9.0g		**indicator function**
neg	byte	%9.0g		**indicator function**
agemo	int	%9.0g		**age in months**
ageyrs	double	%9.0g		**computed age of respondent in years**
mincumdosew1	double	%8.0g		**wave 1 avg minimum dose of CS137 in mGy ending 12/31/1986**
avgcumdosew1	double	%8.0g		**wave 1 avg mean CS137 dose in mGy ending 12/31/1986**
maxcumdosew1	double	%8.0g		**wave2 avg CS137 maximum dose ending 12/31/1986**
mincumdosew2	double	%8.0g		**Wave 2 average minimum CS137 dose in mGy ending 12/31/1996**
avgcumdosew2	double	%8.0g		**Average mean dose CS1337 in mGy for wave 2**
maxcumdosew2	double	%8.0g		**Avg Max dose in mGY for wave 2**
mincumdosew3	double	%8.0g		**Wave 3 avg minimum dose of CS137 ending in 12/31/2009**
avgcumdosew3	double	%8.0g		**Avg Mean dose of CS137 ending 12/31/2009**
maxcumdosew3	double	%8.0g		**Average maximum dose of CS137 ending in 12/31/2009 in mGy**
reporttype	str45	%45s		**Report type:**
threewavepane~s	str32	%32s		**Three-wave panel, cumulative doses**
wave1summary	str10	%10s		**Three-wave panel, cumulative doses**
wave2summary	str10	%10s		
wave3summary	str10	%10s		
ranown2	byte	%27.0g	ranown	**Current raion of residence**
townnown	byte	%27.0g	townnown	**Current town of residence**
totltele	long	%9.0g		**Total number of landline phones per raion**
area	byte	%22.0g	ar	**Basis of sampling weights**
areacodewt	int	%9.0g		**Basis of sampling weight**
combined	byte	%24.0g	combi	**Was this area combined with another to form final sampling weight?**
oblnown	byte	%8.0g	oblnown	**Current Oblast of residence**
numresp	int	%9.0g		**Number of respondents per area**
c	byte	%9.0g		**Constant of unity for subsample computation of cases per area**
areaRespid	int	%9.0g		**Number of respondents in sample**

				per areacode
raionwt	double	%9.0g		inverse of sampling wt per raion
totalphones	long	%9.0g		Totoal number of phones in Kyiv and Zhitomyr Oblast
sampwt	double	%9.0g		Sampling weight
fpc1	double	%9.0g		Finite population correction
cptsd	double	%9.0g		Mean centered PTSD score
cbdep	double	%9.0g		Mean centered BSI depression score
cpxd	double	%9.0g		Mean centered interaction between PTSD and BSI Depression
pxd	int	%9.0g		Interaction between PTSD and BSI depression
genwt	int	%9.0g		Post-stratification gender proportion correction factor
agesq	int	%9.0g		
male	byte	%9.0g		
mar0w3	byte	%9.0g		Married code 0 in wave 3
emplw35	byte	%8.0g		emplw3==5. unemployed
occ1w3	byte	%15.0g	LABJ	professional executive administration now
occ2w3	byte	%15.0g	LABJ	technical sales admin support now
occ3w3	byte	%15.0g	LABJ	service occup protective services now
occ4w3	byte	%15.0g	LABJ	precision prod mechan craft construction now
occ5w3	byte	%15.0g	LABJ	factory laborer machinist transp cleaner now
occ6w3	byte	%15.0g	LABJ	farming agricul forestry fishing trapping logging now
occ7w3	byte	%15.0g	LABJ	homemaking or caregiving now
occ8w3	byte	%15.0g	LABJ	student now
inc1w3	byte	%15.0g	LABJ	Income is not sufficient for basic neccessities NOW
inc2w3	byte	%15.0g	LABJ	Income is just sufficient for basic neccessities NOW
inc3w3	byte	%15.0g	LABJ	Income is sufficient for basics plus extra purchases/savings NOW
inc4w3	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items NOW
radhlw3	byte	%8.0g		Self-perceived Chornobyl health threat in wave 3
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
radtlw3	byte	%8.0g		believed % of cumulative radiation exposed to in a

```
                                                  lifetime NOW
havmil          double %9.0g                  Distance from Chornobyl in miles

327 .
328 . des bfffpain2-bfffpain34

              storage  display     value
variable name   type   format      label      variable label
------------------------------------------------------------------------------
bfffpain2       byte   %9.0g                  max(0, 23 - BSIsoma)
bfffpain3       float  %9.0g                   max(0, hospw3 - 1.57823e-007)
bfffpain4       float  %9.0g                  max(0, occ3w2 + 2.13147e-009)
bfffpain5       byte   %9.0g                  max(0, shhlw1 -30)
bfffpain6       byte   %9.0g                  max(0, 30-shhlw1)
bfffpain7       byte   %9.0g                   max(0, inc1w3 - 7.3627e-009) *
                                                 bfffpain5
bfffpain8       byte   %9.0g                  max(0, BSIsoma - 13)
bfffpain9       byte   %9.0g                  max(0, 13-BSIsoma)
bfffpain11      int    %9.0g                  max(0, 80- radw2)*bfffpain8
                                                 female pain series
bfffpain12      float  %9.0g                   max(0, physdisagw3 - 10) *
                                                 bfffpain9
bfffpain13      float  %9.0g                  max(0, 10 - physdisagw3) *
                                                 bfffpain9
bfffpain14      float  %9.0g                   max(0, havmil - 112.275) *
                                                 bfffpain11
bfffpain15      float  %9.0g                   max(0, 112.275 - havmil) *
                                                 bfffpain11
bfffpain16      float  %9.0g                   max(0, painmedspw3 -
                                                 4.33161e-008) * bfffpain3
bfffpain17      float  %9.0g                  max(0, defnw2 - 90)* bfffpain4
bfffpain19      float  %9.0g                   (CSprbslv != . ) * bfffpain15
bfffpain21      float  %9.0g                  max(0, CSprbslv - 29) *
                                                 bfffpain19
bfffpain22      float  %9.0g                  max(0, 29-CSprbslv)*bfffpain19
bfffpain23      float  %9.0g                  max(0, shrelaw1 - 10)*bfffpain16
bfffpain24      float  %9.0g                  max(0, 10-shrelaw1)*bfffpain16
bfffpain25      float  %9.0g                  max(0, suchrw2 - 2.24572e-006) *
                                                 bfffpain23
bfffpain26      float  %9.0g                  max(0, neiw3 - 80) * bfffpain24
bfffpain27      float  %9.0g                  max((0, 80 - neiw3) * bfffpain24
                                                 )
bfffpain28      float  %9.0g                  max(0, age - 28)*bfffpain22
bfffpain29      float  %9.0g                  (medcow3 != .)* bfffpain4
bfffpain32      float  %9.0g                  max(0, 3- medcow3) * bfffpain29
bfffpain33      float  %9.0g                   max(0, PTSDw3 + 3.81914e-008) *
                                                 bfffpain32
bfffpain34      float  %9.0g                   max(0, occ4w3 - 9.59584e-010) *
                                                 bfffpain3
```

```
329 .
330 . local bfw3 bfffpain3 bfffpain7 bfffpain8 bfffpain9 bfffpain12 bfffpain13 ///
    >     bfffpain14 bfffpain15 bfffpain16 bfffpain19 bfffpain21 bfffpain22 ///
    >     bfffpain26 bfffpain27 bfffpain28 bfffpain29 bfffpain32 bfffpain33 ///
    >     bfffpain34

331 .
332 . regress WHPpain age educ2-educ5 marrw31-marrw33 marrw35 childw3 ///
    >   emplw32-emplw34 occ1w3-occ7w3  inc1w3-inc4w3 radhlw3 radchw3 ///
    >   radtlw3 havmil `bfw3' avgcumdosew3 if gender==2
```

Source	SS	df	MS		
Model	123596.047	48	2574.91764	Number of obs =	363
Residual	56850.8169	314	181.053557	F(48, 314) =	14.22
				Prob > F =	0.0000
Total	180446.864	362	498.471999	R-squared =	0.6849
				Adj R-squared =	0.6368
				Root MSE =	13.456

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2006054	.0917017	2.19	0.029	.0201779	.3810328
educ2	5.494481	3.342786	1.64	0.101	-1.08261	12.07157
educ3	2.362242	1.849475	1.28	0.202	-1.276688	6.001172
educ4	6.430872	3.272176	1.97	0.050	-.0072898	12.86903
educ5	-.0601994	2.470084	-0.02	0.981	-4.920208	4.799809
marrw31	.9661121	3.776446	0.26	0.798	-6.464226	8.39645
marrw32	6.891136	5.431863	1.27	0.206	-3.796314	17.57859
marrw33	4.136903	2.3186	1.78	0.075	-.4250522	8.698858
marrw35	2.383149	3.426536	0.70	0.487	-4.358724	9.125021
childw3	.7731541	1.018331	0.76	0.448	-1.230461	2.776769
emplw32	3.993512	3.089506	1.29	0.197	-2.085238	10.07226
emplw33	-9.480445	13.88675	-0.68	0.495	-36.80329	17.8424
emplw34	.9752595	2.919222	0.33	0.739	-4.76845	6.718969
occ1w3	1.291223	8.27058	0.16	0.876	-14.98154	17.56398
occ2w3	5.718883	8.430373	0.68	0.498	-10.86828	22.30604
occ3w3	.7321127	8.585602	0.09	0.932	-16.16047	17.62469
occ4w3	2.02377	10.19934	0.20	0.843	-18.04392	22.09146
occ5w3	9.94796	10.33796	0.96	0.337	-10.39246	30.28838
occ6w3	3.377447	10.62451	0.32	0.751	-17.52678	24.28168
occ7w3	4.876505	8.158436	0.60	0.550	-11.17561	20.92862
inc1w3	2.920362	8.28312	0.35	0.725	-13.37707	19.2178
inc2w3	.1141018	8.259248	0.01	0.989	-16.13636	16.36457
inc3w3	2.257666	8.305028	0.27	0.786	-14.08287	18.59821
inc4w3	7.78157	9.903408	0.79	0.433	-11.70386	27.267
radhlw3	.023925	.0269048	0.89	0.375	-.0290115	.0768615
radchw3	-.0242718	.0302821	-0.80	0.423	-.0838532	.0353096
radtlw3	.0116754	.0314295	0.37	0.711	-.0501636	.0735145

havmil	.0000935	.003283	0.03	0.977	-.0063659	.0065529
bfffpain3	.1497724	.0469435	3.19	0.002	.0574088	.242136
bfffpain7	.0617725	.0711855	0.87	0.386	-.0782884	.2018333
bfffpain8	1.952158	.2873146	6.79	0.000	1.386853	2.517463
bfffpain9	-2.025335	.7644603	-2.65	0.008	-3.529448	-.5212232
bfffpain12	.1256196	.0312869	4.02	0.000	.0640612	.1871781
bfffpain13	.1062601	.0767323	1.38	0.167	-.0447144	.2572346
bfffpain14	-.0001855	.0000999	-1.86	0.064	-.0003822	.0000111
bfffpain15	-.0005183	.0006577	-0.79	0.431	-.0018123	.0007757
bfffpain16	.0696623	.0111717	6.24	0.000	.0476814	.0916432
bfffpain19	.0006123	.0006605	0.93	0.355	-.0006872	.0019118
bfffpain21	-.0002321	.0000878	-2.64	0.009	-.000405	-.0000593
bfffpain22	-.000139	.0000449	-3.09	0.002	-.0002274	-.0000506
bfffpain26	-.0006823	.0001653	-4.13	0.000	-.0010075	-.0003571
bfffpain27	-.0001094	.0000308	-3.55	0.000	-.00017	-.0000488
bfffpain28	4.61e-06	1.36e-06	3.39	0.001	1.93e-06	7.28e-06
bfffpain29	21.39832	3.513454	6.09	0.000	14.48543	28.3112
bfffpain32	-11.2944	2.297041	-4.92	0.000	-15.81394	-6.774864
bfffpain33	.6058237	.1431503	4.23	0.000	.3241686	.8874788
bfffpain34	3.910537	1.107396	3.53	0.000	1.731681	6.089392
avgcumdosew3	-.1862173	.4308872	-0.43	0.666	-1.034008	.6615737
_cons	-10.98974	6.183161	-1.78	0.076	-23.1554	1.175929

```
333 .
334 . scalar fw3 = e(r2_a)

335 . scalar list fw3
          fw3 =  .63678289

336 .
337 .
338 . *---- Wave 3 analysis of Female Pain Model begins here
339 . scalar wv = 3

340 .
341 . matrix define H1p1FPnDosew3 = J(1,12,0)
```

```
342 . matrix  colnames H1p1FPnDosew3 = hypnum ptnum wv dsigfw3 dsigtw3 numMainEffs
    > igFw3 numMainEffsigTw3 numModFw3 numModTw3 numbfsigfw3 numbfsigtw3 numMedw3

343 . matrix  rownames H1p1FPnDosew3 = wave3

344 . matlist H1p1FPnDosew3

             |    hypnum      ptnum          wv    dsigfw3    dsigtw3  numMain~
    > 3  numMain~3  numModFw3  numModTw3  numbfsi~3  numbfsi~3
-------------+------------------------------------------------------------------
    > -------------------------------------------------------

       wave3 |          0          0          0          0          0
    > 0          0          0          0          0          0

             |  numMedw3
-------------+----------
       wave3 |          0

345 .
346 .
347 . // wave 3 trimmed model of possible socio-demog covariates Female model
348 .
349 . sw, pr(.05):  regress WHPpain age educ2-educ6 marrw31-marrw33   ///
    >   emplw31-emplw33 occ2w3-occ7w3 inc1w3-inc4w3 if gender==2
                        begin with full model
    p = 0.9713 >= 0.0500  removing occ2w3
    p = 0.9137 >= 0.0500  removing marrw32
    p = 0.8685 >= 0.0500  removing inc4w3
    p = 0.5880 >= 0.0500  removing marrw33
    p = 0.5690 >= 0.0500  removing educ6
    p = 0.6908 >= 0.0500  removing educ5
    p = 0.5060 >= 0.0500  removing occ5w3
    p = 0.4918 >= 0.0500  removing occ6w3
    p = 0.5657 >= 0.0500  removing occ7w3
    p = 0.5853 >= 0.0500  removing inc3w3
    p = 0.5702 >= 0.0500  removing inc2w3
    p = 0.3641 >= 0.0500  removing emplw33
    p = 0.1990 >= 0.0500  removing marrw31
    p = 0.1472 >= 0.0500  removing educ4
    p = 0.1336 >= 0.0500  removing occ4w3
    p = 0.0806 >= 0.0500  removing emplw32

      Source |       SS       df       MS              Number of obs =     363
-------------+------------------------------           F(  6,   356) =   22.78
       Model |  50066.6565     6  8344.44274           Prob > F      =  0.0000
    Residual |  130380.207   356  366.236537           R-squared     =  0.2775
-------------+------------------------------           Adj R-squared =  0.2653
       Total |  180446.864   362  498.471999           Root MSE      =  19.137
```

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.4706093	.0969939	4.85	0.000	.2798563	.6613622
educ2	14.20595	4.163728	3.41	0.001	6.01735	22.39454
educ3	8.151648	2.203084	3.70	0.000	3.818952	12.48434
inc1w3	9.415547	2.954792	3.19	0.002	3.604506	15.22659
emplw31	-7.813308	2.359417	-3.31	0.001	-12.45345	-3.173161
occ3w3	8.230145	2.99349	2.75	0.006	2.342997	14.11729
_cons	-7.602792	5.600411	-1.36	0.175	-18.61684	3.411256

```
350 .
351 . regress  WHPpain age educ2-educ6 marrw31-marrw33 childw3 emplw31-emplw33 ///
>     occ2w3-occ7w3 inc1w3-inc4w3 avgcumdosew3 if gender==2
```

Source	SS	df	MS		
Model	55086.8864	24	2295.28693	Number of obs	= 363
Residual	125359.977	338	370.887506	F(24, 338)	= 6.19
				Prob > F	= 0.0000
Total	180446.864	362	498.471999	R-squared	= 0.3053
				Adj R-squared	= 0.2560
				Root MSE	= 19.258

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.4130894	.109167	3.78	0.000	.198357	.6278218
educ2	22.50001	12.01107	1.87	0.062	-1.125857	46.12588
educ3	16.50246	11.59733	1.42	0.156	-6.309568	39.31449
educ4	14.43594	12.21275	1.18	0.238	-9.586632	38.45851
educ5	8.845371	11.8461	0.75	0.456	-14.45599	32.14673
educ6	7.961411	11.63186	0.68	0.494	-14.91855	30.84137
marrw31	-4.023982	4.925	-0.82	0.414	-13.71149	5.663528
marrw32	.7354091	7.42427	0.10	0.921	-13.86818	15.339
marrw33	1.290001	2.658255	0.49	0.628	-3.938805	6.518807
childw3	.2472649	1.423956	0.17	0.862	-2.553666	3.048196
emplw31	-12.69105	4.409419	-2.88	0.004	-21.36441	-4.017685
emplw32	-11.38683	5.986434	-1.90	0.058	-23.16219	.3885296
emplw33	-17.32449	19.5136	-0.89	0.375	-55.70789	21.0589
occ2w3	.3331353	3.751815	0.09	0.929	-7.046712	7.712983
occ3w3	8.835376	3.42817	2.58	0.010	2.092141	15.57861
occ4w3	9.146284	7.176389	1.27	0.203	-4.969725	23.26229
occ5w3	6.260175	8.959373	0.70	0.485	-11.36298	23.88333
occ6w3	-6.87003	10.14708	-0.68	0.499	-26.82942	13.08936
occ7w3	-3.306882	5.025054	-0.66	0.511	-13.1912	6.577436
inc1w3	11.01045	4.692751	2.35	0.020	1.779778	20.24113
inc2w3	3.433257	3.965813	0.87	0.387	-4.367526	11.23404
inc3w3	2.414049	4.003426	0.60	0.547	-5.460719	10.28882
inc4w3	1.027542	8.293047	0.12	0.901	-15.28494	17.34003

avgcumdosew3	.65196	.6014467	1.08	0.279	-.5310902	1.83501
_cons	-13.14409	14.23611	-0.92	0.357	-41.14662	14.85844

```
352 .  // avg cumulative dose is not a significant main effect in wave 3 either
353 .
354 .  local bfw3 bfffpain3 bfffpain7 bfffpain8 bfffpain9 bfffpain12 bfffpain13 //
    > /
    >     bfffpain14 bfffpain15 bfffpain16 bfffpain19 bfffpain21 bfffpain22 ///
    >     bfffpain26 bfffpain27 bfffpain28 bfffpain29 bfffpain32 bfffpain33 ///
    >     bfffpain34

355 . regress WHPpain age educ2-educ5 marrw31-marrw33 marrw35 childw3 ///
    >   emplw32-emplw34 occ1w3-occ7w3  inc1w3-inc4w3 radhlw3 radchw3 ///
    >   radtlw3 havmil `bfw3' avgcumdosew3 if gender==2
```

Source	SS	df	MS		
Model	123596.047	48	2574.91764	Number of obs =	363
Residual	56850.8169	314	181.053557	F(48, 314) =	14.22
				Prob > F =	0.0000
				R-squared =	0.6849
				Adj R-squared =	0.6368
Total	180446.864	362	498.471999	Root MSE =	13.456

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2006054	.0917017	2.19	0.029	.0201779	.3810328
educ2	5.494481	3.342786	1.64	0.101	-1.08261	12.07157
educ3	2.362242	1.849475	1.28	0.202	-1.276688	6.001172
educ4	6.430872	3.272176	1.97	0.050	-.0072898	12.86903
educ5	-.0601994	2.470084	-0.02	0.981	-4.920208	4.799809
marrw31	.9661121	3.776446	0.26	0.798	-6.464226	8.39645
marrw32	6.891136	5.431863	1.27	0.206	-3.796314	17.57859
marrw33	4.136903	2.3186	1.78	0.075	-.4250522	8.698858
marrw35	2.383149	3.426536	0.70	0.487	-4.358724	9.125021
childw3	.7731541	1.018331	0.76	0.448	-1.230461	2.776769
emplw32	3.993512	3.089506	1.29	0.197	-2.085238	10.07226
emplw33	-9.480445	13.88675	-0.68	0.495	-36.80329	17.8424
emplw34	.9752595	2.919222	0.33	0.739	-4.76845	6.718969
occ1w3	1.291223	8.27058	0.16	0.876	-14.98154	17.56398
occ2w3	5.718883	8.430373	0.68	0.498	-10.86828	22.30604
occ3w3	.7321127	8.585602	0.09	0.932	-16.16047	17.62469
occ4w3	2.02377	10.19934	0.20	0.843	-18.04392	22.09146
occ5w3	9.94796	10.33796	0.96	0.337	-10.39246	30.28838
occ6w3	3.377447	10.62451	0.32	0.751	-17.52678	24.28168
occ7w3	4.876505	8.158436	0.60	0.550	-11.17561	20.92862
inc1w3	2.920362	8.28312	0.35	0.725	-13.37707	19.2178
inc2w3	.1141018	8.259248	0.01	0.989	-16.13636	16.36457
inc3w3	2.257666	8.305028	0.27	0.786	-14.08287	18.59821

inc4w3	7.78157	9.903408	0.79	0.433	-11.70386	27.267
radhlw3	.023925	.0269048	0.89	0.375	-.0290115	.0768615
radchw3	-.0242718	.0302821	-0.80	0.423	-.0838532	.0353096
radtlw3	.0116754	.0314295	0.37	0.711	-.0501636	.0735145
havmil	.0000935	.003283	0.03	0.977	-.0063659	.0065529
bfffpain3	.1497724	.0469435	3.19	0.002	.0574088	.242136
bfffpain7	.0617725	.0711855	0.87	0.386	-.0782884	.2018333
bfffpain8	1.952158	.2873146	6.79	0.000	1.386853	2.517463
bfffpain9	-2.025335	.7644603	-2.65	0.008	-3.529448	-.5212232
bfffpain12	.1256196	.0312869	4.02	0.000	.0640612	.1871781
bfffpain13	.1062601	.0767323	1.38	0.167	-.0447144	.2572346
bfffpain14	-.0001855	.0000999	-1.86	0.064	-.0003822	.0000111
bfffpain15	-.0005183	.0006577	-0.79	0.431	-.0018123	.0007757
bfffpain16	.0696623	.0111717	6.24	0.000	.0476814	.0916432
bfffpain19	.0006123	.0006605	0.93	0.355	-.0006872	.0019118
bfffpain21	-.0002321	.0000878	-2.64	0.009	-.000405	-.0000593
bfffpain22	-.000139	.0000449	-3.09	0.002	-.0002274	-.0000506
bfffpain26	-.0006823	.0001653	-4.13	0.000	-.0010075	-.0003571
bfffpain27	-.0001094	.0000308	-3.55	0.000	-.00017	-.0000488
bfffpain28	4.61e-06	1.36e-06	3.39	0.001	1.93e-06	7.28e-06
bfffpain29	21.39832	3.513454	6.09	0.000	14.48543	28.3112
bfffpain32	-11.2944	2.297041	-4.92	0.000	-15.81394	-6.774864
bfffpain33	.6058237	.1431503	4.23	0.000	.3241686	.8874788
bfffpain34	3.910537	1.107396	3.53	0.000	1.731681	6.089392
avgcumdosew3	-.1862173	.4308872	-0.43	0.666	-1.034008	.6615737
_cons	-10.98974	6.183161	-1.78	0.076	-23.1554	1.175929

```
356 .
357 . scalar numMainEffsigFw3 = 15

358 .
359 .  local bfw3 bfffpain3 bfffpain7 bfffpain8 bfffpain9 bfffpain12 bfffpain13 //
    > /
    >     bfffpain14 bfffpain15 bfffpain16 bfffpain19 bfffpain21 bfffpain22 ///
    >     bfffpain26 bfffpain27 bfffpain28 bfffpain29 bfffpain32 bfffpain33 ///
    >     bfffpain34
```

```
360 .
361 . sw, pr(.1): regress WHPpain age educ2-educ5 marrw31-marrw33 marrw35 childw3
    > ///
    >   emplw32-emplw34 occ1w3-occ7w3  inc1w3-inc4w3 radhlw3 radchw3 ///
    >   radtlw3 havmil `bfw3'  avgcumdosew3 if gender==2
                          begin with full model
    p = 0.9890 >= 0.1000  removing inc2w3
    p = 0.9810 >= 0.1000  removing educ5
    p = 0.9761 >= 0.1000  removing havmil
    p = 0.8103 >= 0.1000  removing occ3w3
    p = 0.8033 >= 0.1000  removing marrw31
    p = 0.7761 >= 0.1000  removing occ4w3
    p = 0.7533 >= 0.1000  removing emplw34
    p = 0.7332 >= 0.1000  removing radtlw3
    p = 0.7141 >= 0.1000  removing occ1w3
    p = 0.7116 >= 0.1000  removing avgcumdosew3
    p = 0.6767 >= 0.1000  removing occ6w3
    p = 0.5258 >= 0.1000  removing marrw35
    p = 0.4754 >= 0.1000  removing radchw3
    p = 0.4823 >= 0.1000  removing emplw33
    p = 0.4197 >= 0.1000  removing radhlw3
    p = 0.3957 >= 0.1000  removing bfffpain15
    p = 0.3694 >= 0.1000  removing childw3
    p = 0.3363 >= 0.1000  removing bfffpain7
    p = 0.2505 >= 0.1000  removing marrw32
    p = 0.2339 >= 0.1000  removing occ5w3
    p = 0.2279 >= 0.1000  removing emplw32
    p = 0.2139 >= 0.1000  removing inc4w3
    p = 0.2034 >= 0.1000  removing bfffpain19
    p = 0.2184 >= 0.1000  removing marrw33
    p = 0.1739 >= 0.1000  removing educ3
    p = 0.2593 >= 0.1000  removing educ2
    p = 0.2043 >= 0.1000  removing inc3w3
    p = 0.1376 >= 0.1000  removing bfffpain13
    p = 0.1219 >= 0.1000  removing occ2w3
```

Source	SS	df	MS
Model	119447.094	19	6286.68914
Residual	60999.77	343	177.841895
Total	180446.864	362	498.471999

Number of obs	363
F(19, 343)	35.35
Prob > F	0.0000
R-squared	0.6620
Adj R-squared	0.6432
Root MSE	13.336

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2248632	.0739994	3.04	0.003	.0793135	.3704128
bfffpain21	-.0002157	.0000804	-2.68	0.008	-.0003739	-.0000575
bfffpain26	-.0006886	.000159	-4.33	0.000	-.0010014	-.0003759
educ4	5.575233	2.94371	1.89	0.059	-.2147627	11.36523
bfffpain34	3.9392	.8949378	4.40	0.000	2.178944	5.699457
bfffpain29	21.43914	2.969073	7.22	0.000	15.59926	27.27902
bfffpain8	2.185328	.2376581	9.20	0.000	1.717877	2.652779
inc1w3	3.836476	2.224281	1.72	0.085	-.5384711	8.211424
bfffpain16	.071497	.0106485	6.71	0.000	.0505523	.0924416
bfffpain9	-1.046484	.3849206	-2.72	0.007	-1.803586	-.2893816
bfffpain33	.5703642	.1371641	4.16	0.000	.3005756	.8401528
bfffpain14	-.0001809	.0000892	-2.03	0.043	-.0003565	-5.41e-06
bfffpain27	-.0001107	.0000295	-3.75	0.000	-.0001688	-.0000527
bfffpain22	-.0001079	.0000396	-2.72	0.007	-.0001859	-.00003
occ7w3	3.295357	1.908815	1.73	0.085	-.4590993	7.049813
bfffpain32	-11.22556	2.168913	-5.18	0.000	-15.49161	-6.959517
bfffpain28	3.86e-06	1.24e-06	3.12	0.002	1.43e-06	6.30e-06
bfffpain3	.1324656	.0439322	3.02	0.003	.0460551	.2188761
bfffpain12	.10128	.0274027	3.70	0.000	.0473815	.1551784
_cons	-3.518382	3.913701	-0.90	0.369	-11.21626	4.179495

```
362 .
363 . scalar tw3bf = e(r2_a)

364 . scalar list tw3bf
        tw3bf =  .64322591

365 . scalar dsigfw3 = 0

366 . scalar numMainEffsigFw3 =16

367 .
368 .  local bfw3 bfffpain3 bfffpain7 bfffpain8 bfffpain9 bfffpain12 bfffpain13 //
    > /
    >     bfffpain14 bfffpain15 bfffpain16 bfffpain19 bfffpain21 bfffpain22 ///
    >     bfffpain26 bfffpain27 bfffpain28 bfffpain29 bfffpain32 bfffpain33 ///
    >     bfffpain34
```

```
369 .
370 . sw, pr(.1): regress WHPpain age educ2-educ5 marrw31-marrw33 marrw35 childw3
    > ///
    >   emplw32-emplw34 occ1w3-occ7w3  inc1w3-inc4w3 radhlw3 radchw3 ///
    >   radtlw3 havmil `bfw3' avgcumdosew3 if gender==2
                          begin with full model
    p = 0.9890 >= 0.1000  removing inc2w3
    p = 0.9810 >= 0.1000  removing educ5
    p = 0.9761 >= 0.1000  removing havmil
    p = 0.8103 >= 0.1000  removing occ3w3
    p = 0.8033 >= 0.1000  removing marrw31
    p = 0.7761 >= 0.1000  removing occ4w3
    p = 0.7533 >= 0.1000  removing emplw34
    p = 0.7332 >= 0.1000  removing radtlw3
    p = 0.7141 >= 0.1000  removing occ1w3
    p = 0.7116 >= 0.1000  removing avgcumdosew3
    p = 0.6767 >= 0.1000  removing occ6w3
    p = 0.5258 >= 0.1000  removing marrw35
    p = 0.4754 >= 0.1000  removing radchw3
    p = 0.4823 >= 0.1000  removing emplw33
    p = 0.4197 >= 0.1000  removing radhlw3
    p = 0.3957 >= 0.1000  removing bfffpain15
    p = 0.3694 >= 0.1000  removing childw3
    p = 0.3363 >= 0.1000  removing bfffpain7
    p = 0.2505 >= 0.1000  removing marrw32
    p = 0.2339 >= 0.1000  removing occ5w3
    p = 0.2279 >= 0.1000  removing emplw32
    p = 0.2139 >= 0.1000  removing inc4w3
    p = 0.2034 >= 0.1000  removing bfffpain19
    p = 0.2184 >= 0.1000  removing marrw33
    p = 0.1739 >= 0.1000  removing educ3
    p = 0.2593 >= 0.1000  removing educ2
    p = 0.2043 >= 0.1000  removing inc3w3
    p = 0.1376 >= 0.1000  removing bfffpain13
    p = 0.1219 >= 0.1000  removing occ2w3
```

Source	SS	df	MS
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Root MSE	13.336

WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2248632	.0739994	3.04	0.003	.0793135	.3704128
bfffpain21	-.0002157	.0000804	-2.68	0.008	-.0003739	-.0000575
bfffpain26	-.0006886	.000159	-4.33	0.000	-.0010014	-.0003759
educ4	5.575233	2.94371	1.89	0.059	-.2147627	11.36523
bfffpain34	3.9392	.8949378	4.40	0.000	2.178944	5.699457
bfffpain29	21.43914	2.969073	7.22	0.000	15.59926	27.27902
bfffpain8	2.185328	.2376581	9.20	0.000	1.717877	2.652779
inc1w3	3.836476	2.224281	1.72	0.085	-.5384711	8.211424
bfffpain16	.071497	.0106485	6.71	0.000	.0505523	.0924416
bfffpain9	-1.046484	.3849206	-2.72	0.007	-1.803586	-.2893816
bfffpain33	.5703642	.1371641	4.16	0.000	.3005756	.8401528
bfffpain14	-.0001809	.0000892	-2.03	0.043	-.0003565	-5.41e-06
bfffpain27	-.0001107	.0000295	-3.75	0.000	-.0001688	-.0000527
bfffpain22	-.0001079	.0000396	-2.72	0.007	-.0001859	-.00003
occ7w3	3.295357	1.908815	1.73	0.085	-.4590993	7.049813
bfffpain32	-11.22556	2.168913	-5.18	0.000	-15.49161	-6.959517
bfffpain28	3.86e-06	1.24e-06	3.12	0.002	1.43e-06	6.30e-06
bfffpain3	.1324656	.0439322	3.02	0.003	.0460551	.2188761
bfffpain12	.10128	.0274027	3.70	0.000	.0473815	.1551784
_cons	-3.518382	3.913701	-0.90	0.369	-11.21626	4.179495

```
371 .
372 . scalar numMainEffsigTw3 =16

373 . scalar numMedFw3 = 15

374 .
375 . scalar dsigtw3 = 0

376 .
377 . scalar tw3nobf = e(r2_a)

378 . scalar list tw3nobf
       tw3nobf =  .64322591
```

```
379 .
380 . scalar r2chabfw3 = tw3bf - tw3nobf

381 . scalar list r2chabfw3
     r2chabfw3 =          0

382 .
383 . scalar w3numbf = 15

384 . scalar numbfsigfw3 = 15

385 .
386 .  ********  Moderator search only if avgcumdosew3 is signifi which it is not
    > as a main effect
387 .
388 .  scalar numModsigFw3 =0

389 .  scalar numModsigTw3=0

390 .
391 .  *---      Mediator Search from trimmed main effects model
392 .   local bfw3 bfffpain3 bfffpain7 bfffpain8 bfffpain9 bfffpain12 bfffpain13 /
    > //
    >     bfffpain14 bfffpain15 bfffpain16 bfffpain19 bfffpain21 bfffpain22 ///
    >     bfffpain26 bfffpain27 bfffpain28 bfffpain29 bfffpain32 bfffpain33 ///
    >     bfffpain34

393 .
394 . sw, pr(.1): regress WHPpain age educ2-educ5 marrw31-marrw33 marrw35 childw3
    > ///
    >   emplw32-emplw34 occ1w3-occ7w3  inc1w3-inc4w3 radhlw3 radchw3  ///
    >   radtlw3 havmil `bfw3' avgcumdosew3 if gender==2
                          begin with full model
    p = 0.9890 >= 0.1000  removing inc2w3
    p = 0.9810 >= 0.1000  removing educ5
    p = 0.9761 >= 0.1000  removing havmil
    p = 0.8103 >= 0.1000  removing occ3w3
    p = 0.8033 >= 0.1000  removing marrw31
    p = 0.7761 >= 0.1000  removing occ4w3
    p = 0.7533 >= 0.1000  removing emplw34
    p = 0.7332 >= 0.1000  removing radtlw3
    p = 0.7141 >= 0.1000  removing occ1w3
    p = 0.7116 >= 0.1000  removing avgcumdosew3
    p = 0.6767 >= 0.1000  removing occ6w3
    p = 0.5258 >= 0.1000  removing marrw35
    p = 0.4754 >= 0.1000  removing radchw3
    p = 0.4823 >= 0.1000  removing emplw33
    p = 0.4197 >= 0.1000  removing radhlw3
    p = 0.3957 >= 0.1000  removing bfffpain15
```

```
p = 0.3694 >= 0.1000  removing childw3
p = 0.3363 >= 0.1000  removing bfffpain7
p = 0.2505 >= 0.1000  removing marrw32
p = 0.2339 >= 0.1000  removing occ5w3
p = 0.2279 >= 0.1000  removing emplw32
p = 0.2139 >= 0.1000  removing inc4w3
p = 0.2034 >= 0.1000  removing bfffpain19
p = 0.2184 >= 0.1000  removing marrw33
p = 0.1739 >= 0.1000  removing educ3
p = 0.2593 >= 0.1000  removing educ2
p = 0.2043 >= 0.1000  removing inc3w3
p = 0.1376 >= 0.1000  removing bfffpain13
p = 0.1219 >= 0.1000  removing occ2w3
```

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WHPpain	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
age	.2248632	.0739994	3.04	0.003	.0793135	.3704128
bfffpain21	-.0002157	.0000804	-2.68	0.008	-.0003739	-.0000575
bfffpain26	-.0006886	.000159	-4.33	0.000	-.0010014	-.0003759
educ4	5.575233	2.94371	1.89	0.059	-.2147627	11.36523
bfffpain34	3.9392	.8949378	4.40	0.000	2.178944	5.699457
bfffpain29	21.43914	2.969073	7.22	0.000	15.59926	27.27902
bfffpain8	2.185328	.2376581	9.20	0.000	1.717877	2.652779
inc1w3	3.836476	2.224281	1.72	0.085	-.5384711	8.211424
bfffpain16	.071497	.0106485	6.71	0.000	.0505523	.0924416
bfffpain9	-1.046484	.3849206	-2.72	0.007	-1.803586	-.2893816
bfffpain33	.5703642	.1371641	4.16	0.000	.3005756	.8401528
bfffpain14	-.0001809	.0000892	-2.03	0.043	-.0003565	-5.41e-06
bfffpain27	-.0001107	.0000295	-3.75	0.000	-.0001688	-.0000527
bfffpain22	-.0001079	.0000396	-2.72	0.007	-.0001859	-.00003
occ7w3	3.295357	1.908815	1.73	0.085	-.4590993	7.049813
bfffpain32	-11.22556	2.168913	-5.18	0.000	-15.49161	-6.959517
bfffpain28	3.86e-06	1.24e-06	3.12	0.002	1.43e-06	6.30e-06
bfffpain3	.1324656	.0439322	3.02	0.003	.0460551	.2188761
bfffpain12	.10128	.0274027	3.70	0.000	.0473815	.1551784
_cons	-3.518382	3.913701	-0.90	0.369	-11.21626	4.179495

```
395 .
396 .  scalar FemPainDoseMedsw3 = "age illw3 phlthw3 radfmw3 hospw3 and radhlw3"

397 .  scalar numbfsigTw3 = 15

398 .
399 .  // age  and illw3 and physical health radhlw3 radfmw3 hospw3 are  possible
    > mediators
400 .
401 . sem(avgcumdosew3->age)(age -> whppain) if gender==2,  nocapslatent

    Endogenous variables

    Observed:  age whppain

    Exogenous variables

    Observed:  avgcumdosew3

    Fitting target model:

    Iteration 0:   log likelihood = -3739.1332
    Iteration 1:   log likelihood = -3739.1332

    Structural equation model                       Number of obs      =       363
    Estimation method  = ml
    Log likelihood     = -3739.1332

    ------------------------------------------------------------------------------
    > ----
                     |                 OIM
                     |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
    > val]
    -----------------+------------------------------------------------------------
    > ----
    Structural       |
      age <-         |
        avgcumdosew3 |   1.058366   .3502924     3.02   0.003     .3718061    1.74
    > 4927
                _cons |   48.94293   .7447571    65.72   0.000     47.48323    50.4
    > 0263
      -----------------+------------------------------------------------------------
    > ----
      whppain <-     |
                 age |   .7333239   .0909308     8.06   0.000     .5551028    .911
    > 5451
                _cons |  -18.8122   4.691527    -4.01   0.000    -28.00742   -9.61
    > 6977
    ------------------------------------------------------------------------------
```

```
> ———
Variance        |
           e.age |   137.0097   10.16981                      118.4593     158
> .465
       e.whppain |    421.567   31.29164                      364.4891    487.
> 5832
-----------------+------------------------------------------------------------
> ———
LR test of model vs. saturated: chi2(1)   =      2.82, Prob > chi2 = 0.0929

402 . sem(avgcumdosew3->inc4w3)(inc4w3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  inc4w3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -2178.6586
Iteration 1:   log likelihood = -2178.6586

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -2178.6586

-----------------+------------------------------------------------------------
> ———
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> ———
Structural       |
  inc4w3 <-      |
    avgcumdosew3 |   .0007104   .0043933     0.16   0.872    -.0079004    .009
> 3211
           _cons |   .0211848   .0093406     2.27   0.023     .0028776    .039
> 4921
  ---------------+------------------------------------------------------------
> ———
  whppain <-     |
         inc4w3 |   -10.8277   7.950764    -1.36   0.173    -26.41091    4.75
> 5515
           _cons |    18.2502   1.180322    15.46   0.000     15.93681    20.5
> 6359
```

```
-------------------+----------------------------------------------------------------
> -----
Variance           |
        e.inc4w3 |   .0215513   .0015997                      .0186334    .024
> 9262
       e.whppain |    494.572   36.71057                      427.6095    572.
> 0205
-------------------+----------------------------------------------------------------
> -----
LR test of model vs. saturated: chi2(1)   =      7.40, Prob > chi2 = 0.0065

403 . sem(avgcumdosew3->illw3)(illw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  illw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -2899.5994
Iteration 1:   log likelihood = -2899.5994

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -2899.5994

-------------------+----------------------------------------------------------------
> -----
                   |                 OIM
                   |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-------------------+----------------------------------------------------------------
> -----
Structural         |
  illw3 <-         |
    avgcumdosew3 |   .1284565   .0341324     3.76   0.000     .0615584    .195
> 3547
           _cons |   .5563644   .0725688     7.67   0.000     .4141321    .698
> 5968
  -----------------+----------------------------------------------------------------
> -----
  whppain <-       |
           illw3 |   6.774775   .9416735     7.19   0.000     4.929128    8.62
> 0421
           _cons |   13.19644   1.283149    10.28   0.000     10.68152    15.7
```

```
> 1137
-------------------+----------------------------------------------------------------
> -----
Variance           |
         e.illw3 |   1.300836   .0965571                      1.124709    1.50
> 4543
       e.whppain |    435.064   32.29348                      376.1586    503.
> 1937
-------------------+----------------------------------------------------------------
> -----
LR test of model vs. saturated: chi2(1)   =      2.28, Prob > chi2 = 0.1309

404 . sem(avgcumdosew3->phlthw3)(phlthw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  phlthw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood =  -3905.879
Iteration 1:   log likelihood =  -3905.879

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     =  -3905.879

-------------------+----------------------------------------------------------------
> -----
                   |                 OIM
                   |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-------------------+----------------------------------------------------------------
> -----
Structural         |
  phlthw3 <-       |
    avgcumdosew3 |  -1.596683   .5946571    -2.69   0.007     -2.76219   -.431
> 1767
           _cons |    67.2054   1.264301    53.16   0.000     64.72741    69.6
> 8338
  -----------------+----------------------------------------------------------------
> -----
  whppain <-       |
         phlthw3 |  -.5692869   .0500792   -11.37   0.000    -.6674403   -.471
> 1335
```

```
           _cons |   55.17832   3.420453    16.13   0.000     48.47436    61.8
> 8229
-----------------+------------------------------------------------------------
> -----
Variance         |
       e.phlthw3 |   394.8419   29.30791                      341.3824     456
> .673
       e.whppain |    366.594   27.21116                      316.9591    424.
> 0015
-----------------+------------------------------------------------------------
> -----
LR test of model vs. saturated: chi2(1)   =      2.44, Prob > chi2 = 0.1182

405 . sem(avgcumdosew3->radhlw3)(radhlw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radhlw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -4149.4532
Iteration 1:   log likelihood = -4149.4532

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -4149.4532

-----------------+------------------------------------------------------------
> -----
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> -----
Structural       |
  radhlw3 <-     |
    avgcumdosew3 |   2.751602   1.027538     2.68   0.007     .7376654    4.76
> 5539
           _cons |   57.70689   2.184649    26.41   0.000     53.42506    61.9
> 8873
  ---------------+------------------------------------------------------------
> -----
  whppain <-     |
         radhlw3 |   .1505805   .0328119     4.59   0.000     .0862705    .214
```

```
> 8906
           _cons |   8.824084   2.302657     3.83   0.000      4.31096    13.3
> 3721
-----------------+------------------------------------------------------------
> -----
Variance         |
       e.radhlw3 |   1178.923   87.50785                      1019.303    1363
> .539
       e.whppain |   469.8393   34.87474                      406.2255    543.
> 4147
-----------------+------------------------------------------------------------
> -----
LR test of model vs. saturated: chi2(1)   =      4.64, Prob > chi2 = 0.0312

406 . sem(avgcumdosew3-> radfmw3)(radfmw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radfmw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -4136.1112
Iteration 1:   log likelihood = -4136.1112

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -4136.1112

-----------------+------------------------------------------------------------
> -----
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> -----
Structural       |
  radfmw3 <-     |
    avgcumdosew3 |   2.423642   .9998022     2.42   0.015      .4640659    4.38
> 3218
           _cons |   65.65475   2.125681    30.89   0.000      61.4885    69.8
> 2101
  ---------------+------------------------------------------------------------
> -----
  whppain <-     |
```

```
         radfmw3 |   .1781639   .0334654     5.32   0.000     .1125729    .243
> 7549
           _cons |   5.795318   2.556485     2.27   0.023        .7847    10.8
> 0594
-----------------+------------------------------------------------------------
> ----
Variance         |
       e.radfmw3 |   1116.138   82.84757                      965.0192    1290
> .923
       e.whppain |   461.0964   34.22578                      398.6664    533.
> 3027
-----------------+------------------------------------------------------------
> ----
LR test of model vs. saturated: chi2(1)   =      4.59, Prob > chi2 = 0.0321

407 . sem(avgcumdosew3-> radchw3)(radchw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radchw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -4161.3265
Iteration 1:   log likelihood = -4161.3265

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -4161.3265

-----------------+------------------------------------------------------------
> ----
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> ----
Structural       |
  radchw3 <-     |
    avgcumdosew3 |   1.497864   1.033363     1.45   0.147    -.5274916    3.52
> 3219
           _cons |    59.6792   2.197035    27.16   0.000     55.37309    63.9
> 8531
-----------------+------------------------------------------------------------
> ----
```

```
  whppain <-
         radchw3 |    .030779   .0337536     0.91   0.362    -.0353768    .096
> 9348
           _cons |    16.1193   2.381707     6.77   0.000     11.45124    20.7
> 8736
-----------------+------------------------------------------------------------
> ----
Variance         |
        e.radchw3 |   1192.329   88.50296                      1030.894    1379
> .044
        e.whppain |   495.9627   36.81381                       428.812     573
> .629
-----------------+------------------------------------------------------------
> ----
LR test of model vs. saturated: chi2(1)   =      6.98, Prob > chi2 = 0.0082

408 . sem(avgcumdosew3-> radtlw3)(radtlw3->whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  radtlw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -4164.2217
Iteration 1:   log likelihood = -4164.2217

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -4164.2217

-----------------+------------------------------------------------------------
> ----
                 |                 OIM
                 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
-----------------+------------------------------------------------------------
> ----
Structural       |
  radtlw3 <-     |
    avgcumdosew3 |    1.24609   1.041929     1.20   0.232     -.796054    3.28
> 8233
           _cons |   63.70355   2.215247    28.76   0.000     59.36174    68.0
> 4535
-----------------+------------------------------------------------------------
```

```
> ———
  whppain <-   |
         radtlw3 |   .0340768   .0334975     1.02   0.309    -.0315771    .099
> 7308
           _cons |   15.78972   2.477037     6.37   0.000     10.93482    20.6
> 4463
———————————————+———————————————————————————————————————————————————————
> ———
Variance       |
        e.radtlw3 |   1212.178   89.97628                      1048.055    1402
> .001
        e.whppain |   495.6856   36.79324                      428.5724    573.
> 3086
———————————————+———————————————————————————————————————————————————————

> ———
LR test of model vs. saturated: chi2(1)   =      7.00, Prob > chi2 = 0.0081

409 . sem(avgcumdosew3 -> hospw3)(hospw3-> whppain) if gender==2, nocapslatent

Endogenous variables

Observed:  hospw3 whppain

Exogenous variables

Observed:  avgcumdosew3

Fitting target model:

Iteration 0:   log likelihood = -3922.6569
Iteration 1:   log likelihood = -3922.6569

Structural equation model                       Number of obs      =       363
Estimation method  = ml
Log likelihood     = -3922.6569

———————————————+———————————————————————————————————————————————————————
> ———
               |                OIM
               |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Inter
> val]
———————————————+———————————————————————————————————————————————————————
> ———
Structural     |
  hospw3 <-    |
    avgcumdosew3 |   1.269009   .5734168     2.21   0.027     .1451329    2.39
> 2886
           _cons |   7.882615   1.219142     6.47   0.000      5.49314    10.2
> 7209
```

```
-------------+----------------------------------------------------------------
> ------
  whppain <- |
          hospw3 |   .4168641   .0565826     7.37   0.000     .3059642      .52
> 7764
           _cons |   14.08983    1.21435    11.60   0.000     11.70975    16.4
> 6991
-------------+----------------------------------------------------------------
> ------
Variance     |
         e.hospw3 |   367.1392   27.25163                      317.4305    424.
> 6322
        e.whppain |   432.4381   32.09857                      373.8883    500.
> 1567
-------------+----------------------------------------------------------------
> ------
LR test of model vs. saturated: chi2(1)   =      4.21, Prob > chi2 = 0.0402

410 .
411 . scalar numMedPainDoseFsigw3 =6

412 .
413 . matrix define FemaleWHPpainr2w3 = ( fw3 , tw3bf, tw3nobf, w3numbf, r2chabfw3
> )

414 . matrix colnames FemaleWHPpainr2w3 = FullBFR2a TR2aBF  TR2aNoBF  NumBF  BFR2c
> ha

415 . matrix rownames FemaleWHPpainr2w3 = wave2

416 . matlist FemaleWHPpainr2w3

             | FullBFR2a     TR2aBF   TR2aNoBF      NumBF    BFR2cha
-------------+------------------------------------------------------
       wave2 |  .6367829   .6432259   .6432259         15          0

417 .
```

```
418 . matrix define  FemaleWHPpainr2 = (FemaleWHPpainr2w1 \ FemaleWHPpainr2w2 \ Fe
    > maleWHPpainr2w3 )

419 . matlist FemaleWHPpainr2

             |  FullBFR2a     TR2aBF   TR2aNoBF      NumBF    BFR2cha
-------------+---------------------------------------------------------
       wave1 |   .4791464   .4667625   .2066858          4   .2600767
       wave2 |   .5774594   .5804982   .5903048          9  -.0098066
       wave2 |   .6367829   .6432259   .6432259         15          0

420 .
421 .
422 .
423 .
424 .
425 .
426 .
427 . matrix define H1p1FPnDosew3 = J(1,12,0)

428 . matrix  colnames H1p1FPnDosew3 = hypnum ptnum wv dsigfw3 dsigtw3 numMainEffs
    > igFw3 numMainEffsigTw3 numModFw3 numModTw3 numbfsigfw3 numbfsigtw3 numMedw3

429 . matrix  rownames H1p1FPnDosew3 = wave3

430 . matlist H1p1FPnDosew3

             |    hypnum      ptnum         wv    dsigfw3    dsigtw3  numMain~
> 3  numMain~3  numModFw3  numModTw3  numbfsi~3  numbfsi~3
-------------+-----------------------------------------------------------------
> -----------------------------------------------------------
       wave3 |          0          0          0          0          0
> 0          0          0          0          0          0

             |  numMedw3
-------------+----------
       wave3 |          0
```

```
431 .
432 .
433 . *----- Legend---------------------------------------------------------
    > --------------------
434 . * legend: hyp =  hypothesis
435 . *         pt = part of hypothesis
436 . *         wv = wave
437 . *         dsigfw3  =  is dose signifcant in full main effects model = 1 if
    >  yes, 0 otherwise
438 . *         dsigtw3 =   is dose signif in trimmed main effects model = 1 if ye
    > s, 0 otherwise
439 . *         numMainEffsigFwx  =  number of sig main effects in full model in w
    > ave x
440 . *         numMainEffsigTw3  =      "                    "     trimmed "    "
    >     3
441 . *         numModFw3 =   number of moderating effects in full wave 3 model
442 . *         numMOdTw3 =   number of moderating effects in trimmed model in wav
    > e 3
443 . *         numbfsigfw3 = number of basis functions significant in full wave 3
    >  model
444 . *         numbfsigtw3 = number of basis functions significant in trimmedl wa
    > ve 3 model
445 . *         numMedw3 = number of possible mediators in wave3
446 .
447 .
448 . matrix define H1p1FPnDosew3 = (hyp, pt, wv, dsigfw3, dsigtw3, numMainEffsigF
    > w3, numMainEffsigTw3, numModsigFw3, numModsigTw3,numbfsigfw3,numbfsigTw3, nu
    > mMedFw3)

449 . matrix  colnames H1p1FPnDosew3 = hypnum ptnum wv dsigfw3 dsigtw3 numMainEffs
    > igFw3 numMainEffsigTw3 numModFw3 numModTw3 numbfsigfw3 numbfsigtw3 numMedw3

450 . matrix  rownames H1p1FPnDosew3 = wave3

451 . matlist H1p1FPnDosew3

             |    hypnum      ptnum         wv    dsigfw3    dsigtw3  numMain~
> 3  numMain~3  numModFw3  numModTw3  numbfsi~3  numbfsi~3
-------------+-------------------------------------------------------------------
> ---------------------------------------------------------
       wave3 |         1          1          3          0          0          1
> 6         16          0          0         15         15

             |  numMedw3
-------------+----------
       wave3 |        15
```

```
452 .
453 . matrix define H1p1FPnDose = ( H1p1FPnDosew1 \ H1p1FPnDosew2 \ H1p1FPnDosew3
    > )

454 . matlist H1p1FPnDose

                 |    hypnum      ptnum         wv    dsigfw1    dsigtw1  numMain~
    > 1  numMain~1  numModFw1  numModTw1  numbfsi~1  numbfsi~1
    -------------+----------------------------------------------------------------
    > ---------------------------------------------------------
           wave1 |         1          1          1          0          3
    > 5          5          0          1          1          2
           wave2 |         1          1          2          0          0
    > 8          5          2          3          9          0
           wave3 |         1          1          3          0          0          1
    > 6         16          0          0         15         15

                 |  numMedw1
    -------------+-----------
           wave1 |         2
           wave2 |         1
           wave3 |        15

455 .
456 . cap svmat H1p1FPnDose

457 .  sjlog close, replace
```