

```

1 . set seed 1010101

2 . set matsize 11000

3 .
4 . set linesize 80

5 . *****
6 .
7 . *   This script requires pre-installation of spost2 by J. Scott Long for fit
   > stat command
8 . *   It also requires installation of title2.ado, title3.ado
9 . *
10 . *       for the fitstat command to function
11 . *****
12 .
13 . global User   "Robert Alan Yaffee"

14 . * 17 June 2012
15 .
16 . *----- Primary objective: Hypothesis 1 tests for Part 2 of Nottingham hea
   > lth profile
17 .
18 . ***** Hypothesis tests           Robert A. Yaffee       10 June 2012 main effec
   > ts and moderator identification approach
19 . *   protocol is to test Health profile subscales against potential confounder
   > s including socio-demog vars,
20 . *       major neg life events, stresses and hassles, social supports, perceive
   > d health, distance,
21 . *       threat and dose to see whether there is a dose-psych response
22 .
23 . *   We construct a full model, trimmed model (at .1 level), and then test int
   > eractions with dose if there is a
24 . *       significant main effect dose psych response
25 .
26 . *       Trimming is performed with backward elimination to the .1 level
27 . *

```

```

28 . * This approach identifies the moderating variables for our path analysis.
    > We analyze our
29 . * final models for congruence with regression assumptions with the rdiag
    > program for a validity assessment
30 .
31 . * In this section, we decompose the effects into direct and indirect and to
    > tal with a structural equation model.
32 .
33 .
34 . *-----
    > -----
35 .
36 . *----- Organization of the program -----
    > -----
37 . * main effects regresssions are run for all part 1 health profile subscales
    > except that of emotional
38 . * reaction for both males and females separately
39 . * these models are trimmed with backward elimination to determine whether t
    > he main effect of avg cumulative dose
40 . * is significant for that wave
41 . * If the main effect of average cumulative dose for that wave is not stati
    > stically significant with the
42 . * covariates controlled we do not go further along that path
43 . * If the main effect of average cumulative dose for that wave is statistic
    > ally significant, we trim the
44 . * model to a p = .1
45 . * If average cumulative dose is not significant, we stop
46 . * If average cumulative dose is significant we perform a hierarchical regr
    > ession with interactions between dose
47 . * and other significant main effects
48 . * We proceed to test for mediating effects of those other significant expl
    > anatory variable
49 .
50 . ***-----
    > -----
51 .
52 . * Part 2 Nottingham subscales

```



```

70 .
71 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H1tests/h1
    > pt2
    /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H1tests/h1pt2

72 . use chwide29june2012, clear
    (Zero for missing on all icdx)

73 . cd /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H1tests/h1
    > pt2
    /Users/robertyaffee/Documents/data/research/chwk/phase3/Htests/H1tests/h1pt2

74 .
75 .
76 . di "{hline}"


---



77 . di "{hline}"


---



78 . title2 "Chunk 1 Hyp 1: radiation dose and Nottingham Health profile subscales
    > "


---


title2: Chunk 1 Hyp 1: radiation dose and Nottingham Health profile subscales
Date and time: 1 Jul 2012 06:17:07
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/Htests/H1tests/h1pt2
Stata data file: chwide29june2012.dta
> has 2373 variables and 703 observations

Chunk 1 Hyp 1: radiation dose and Nottingham Health profile subscales


---



79 .
80 .
81 . // there is substantial intercorrelation among the items warranting a
82 . // multivariate regression model

```

```

83 . cap dummies educ
84 . cap order educ1-educ8, after(educ)
85 .
86 . * These variables are substantially correlated
87 . bysort gender:tetrachoric HP2work HP2hmcare HP2probsoc HP2pbfhm HP2sxlife HP
    > 2inthob HP2vacatn

```

```

-> gender = 1. male
(obs=340)

```

	HP2work	HP2hmc~e	HP2pro~c	HP2pbfhm	HP2sxl~e	HP2int~b	HP2vac~n
HP2work	1.0000						
HP2hmcare	0.7223	1.0000					
HP2probsoc	0.6334	0.8318	1.0000				
HP2pbfhm	0.4210	0.6204	0.6498	1.0000			
HP2sxlife	0.6703	0.6703	0.7450	0.6703	1.0000		
HP2inthob	0.5840	0.7559	0.8043	0.7155	0.7346	1.0000	
HP2vacatn	0.6334	0.7643	0.8466	0.6498	0.6940	0.8701	1.0000

```

-> gender = 2. female
(obs=363)

```

	HP2work	HP2hmc~e	HP2pro~c	HP2pbfhm	HP2sxl~e	HP2int~b	HP2vac~n
HP2work	1.0000						
HP2hmcare	0.7246	1.0000					
HP2probsoc	0.7615	0.7918	1.0000				
HP2pbfhm	0.5884	0.8081	0.8128	1.0000			
HP2sxlife	0.7778	0.7015	0.8569	0.7553	1.0000		
HP2inthob	0.6513	0.7441	0.8636	0.8291	0.8512	1.0000	
HP2vacatn	0.6993	0.7441	0.8415	0.7654	0.8485	0.9266	1.0000

```

88 .
89 .
90 . cap gen havmilsq = havmil^2

91 .
92 . cap rename Havmil havmil

93 . // controlling for potential confounders
94 . // socio-demographics age gender educ income occp marstat children inc
95 . // distance from accident side
96 . // perceived Chornobyl related health threat to oneself
97 .
98 . local w1bf bf1 bf4 bf9 bf10 bf11 bf4m bf15m bf20 bf22 bf30 bf40

99 . local w2bf bf1 bf4 bf6 bf7 bf14 bf15 bf40

100 . local w3bf bf1 bf4 bf2 bf4m bf5m bf7m bf8 bf15m bf17 bf20 bf22 bf29 bf30 bf4
    > 0

101 .
102 . *-----
    > ----
103 . * Hypothesis 1 Part 2 wave 1 tests male and female
104 . * endogeneous Nottingham pt 2 subscales: HP2work HP2hmcare HP2probsoc HP2pbfh
    > m ///
    > *
    HP2sxlife HP2inthob HP2vacatn
105 . * structure of models
106 . * 1. general models on all Pt 2 subscales with all potential confounders
107 . * 2. trimmed models on all Pt 2 subscales with from all potential confoun
    > ders
108 . * 3. from trimmed models examination of possible moderator variables
109 . * 4. from trimmed models examination of possible mediator variables
110 . * 5. Summary analysis and model evaluation of final models only
111 . * program is divided into 8 chunks one a general model and 1 for each
112 . * endogenous variable
113 . *-----
    > ----

```

```

114 .
115 . * Endogenous variable summarization
116 . set more off

117 . foreach var in HP2work HP2hmcare HP2pbfhm HP2probsoc HP2sxlife HP2inthob HP2
    > vacatn {
      2.   tab gender `var' , row col exact
      3.   }

```

Key
<i>frequency</i>
<i>row percentage</i>
<i>column percentage</i>

respondent's gender	Nottingham Health profile subscale Part2: paid employment		Total
	0. no	1. yes	
1. male	270	70	340
	79.41	20.59	100.00
	50.00	42.94	48.36
2. female	270	93	363
	74.38	25.62	100.00
	50.00	57.06	51.64
Total	540	163	703
	76.81	23.19	100.00
	100.00	100.00	100.00

```

      Fisher's exact = 0.129
1-sided Fisher's exact = 0.068

```

Key
<i>frequency</i>
<i>row percentage</i>
<i>column percentage</i>

respondent's gender	Hlth profile Pt2: Home cleaning, cooking and repairs		Total
	0. no	1. yes	
1. male	270	70	340
	79.41	20.59	100.00
	53.15	35.90	48.36
2. female	238	125	363
	65.56	34.44	100.00
	46.85	64.10	51.64
Total	508	195	703
	72.26	27.74	100.00
	100.00	100.00	100.00

Fisher's exact = 0.000
 1-sided Fisher's exact = 0.000

Key
<i>frequency</i>
<i>row percentage</i>
<i>column percentage</i>

respondent's gender	Hlth profile Pt2: Hlth causing probs with family members at home		Total
	0. no	1. yes	
1. male	318	22	340
	93.53	6.47	100.00
	50.16	31.88	48.36
2. female	316	47	363
	87.05	12.95	100.00
	49.84	68.12	51.64
Total	634	69	703
	90.18	9.82	100.00
	100.00	100.00	100.00

Fisher's exact = 0.005
 1-sided Fisher's exact = 0.003

Key
<i>frequency</i> <i>row percentage</i> <i>column percentage</i>

respondent's gender	Hlth profile Pt2: Hlth causing probs with social life		Total
	0. no	1. yes	
1. male	299	41	340
	87.94	12.06	100.00
	50.85	35.65	48.36
2. female	289	74	363
	79.61	20.39	100.00
	49.15	64.35	51.64
Total	588	115	703
	83.64	16.36	100.00
	100.00	100.00	100.00

Fisher's exact = **0.003**
 1-sided Fisher's exact = **0.002**

Key
<i>frequency</i> <i>row percentage</i> <i>column percentage</i>

respondent's gender	Hlth profile Pt2: Hlth causing probs with sex life		Total
	0. no	1. yes	
1. male	271	69	340
	79.71	20.29	100.00
	50.19	42.33	48.36
2. female	269	94	363
	74.10	25.90	100.00
	49.81	57.67	51.64

Total	540	163	703
	76.81	23.19	100.00
	100.00	100.00	100.00

Fisher's exact = **0.089**
 1-sided Fisher's exact = **0.047**

Key
<i>frequency</i>
<i>row percentage</i>
<i>column percentage</i>

respondent's gender	Hlth profile Pt2: Hlth probs interfering with interests & hobbies		Total
	0. no	1. yes	
1. male	302	38	340
	88.82	11.18	100.00
	50.42	36.54	48.36
2. female	297	66	363
	81.82	18.18	100.00
	49.58	63.46	51.64
Total	599	104	703
	85.21	14.79	100.00
	100.00	100.00	100.00

Fisher's exact = **0.011**
 1-sided Fisher's exact = **0.006**

Key
<i>frequency</i>
<i>row percentage</i>
<i>column percentage</i>

respondent's gender	Hlth profile Pt2: Hlth probs interfering with vacations		Total
	0. no	1. yes	
1. male	299 87.94 49.92	41 12.06 39.42	340 100.00 48.36
2. female	300 82.64 50.08	63 17.36 60.58	363 100.00 51.64
Total	599 85.21 100.00	104 14.79 100.00	703 100.00 100.00

Fisher's exact = 0.056
1-sided Fisher's exact = 0.030

```

118 .
119 .
120 .
121 .
122 . * Chunk 1  General models for all part 2 of Nottingham Health Profile
123 .
124 .
125 . forvalues j=1/1 {
      2. des age educ1-educ7 marrw`j'1-marrw`j'6 inclw`j'-inc4w`j' ///
>   bf1 bf4 bf9 bf11 bf4m bf15m bf30 bf40
      3.   }

```

variable name	storage type	display format	value label	variable label
age	double	%8.0g		* Respondent's age
educ1	byte	%8.0g		educ==1. did not graduate high school
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


```

128 .
129 . forvalues j=1/1 {
      2.   set more off
      3.   foreach var in HP2work HP2hmcare HP2probsoc HP2pbfhm HP2sxlife HP2intho
> b ///
>       HP2vacatn {
      4.         forvalues k=1/2 {
      5.
130 .
131 .           logit `var' avgcumdosew`j' if gender==`k'
      6.
132 .           estat class
      7.             estat gof
      8.
133 .       }
      9.     }
     10.   }

```

```

Iteration 0:  log likelihood = -172.87291
Iteration 1:  log likelihood = -172.80738
Iteration 2:  log likelihood = -172.80504
Iteration 3:  log likelihood = -172.80504

```

Logistic regression	Number of obs	=	340
	LR chi2(1)	=	0.14
	Prob > chi2	=	0.7126
Log likelihood = -172.80504	Pseudo R2	=	0.0004

HP2work	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.0267035	.0696365	0.38	0.701	-.1097815	.1631885
_cons	-1.361951	.1380833	-9.86	0.000	-1.632589	-1.091312

Logistic model for HP2work

Classified	True		Total
	D	~D	
+	0	0	0
-	70	270	340
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2work != 0

Sensitivity	Pr(+ D)	0.00%
Specificity	Pr(- ~D)	100.00%
Positive predictive value	Pr(D +)	.%
Negative predictive value	Pr(~D -)	79.41%
False + rate for true ~D	Pr(+ ~D)	0.00%
False - rate for true D	Pr(- D)	100.00%
False + rate for classified +	Pr(~D +)	.%
False - rate for classified -	Pr(D -)	20.59%
Correctly classified		79.41%

Logistic model for HP2work, goodness-of-fit test

number of observations = **340**
 number of covariate patterns = **212**
 Pearson chi2(210) = **218.39**
 Prob > chi2 = **0.3312**

Iteration 0: log likelihood = **-206.56255**
 Iteration 1: log likelihood = **-203.2501**
 Iteration 2: log likelihood = **-203.17037**
 Iteration 3: log likelihood = **-203.16977**
 Iteration 4: log likelihood = **-203.16977**

Logistic regression	Number of obs	=	363
	LR chi2(1)	=	6.79
	Prob > chi2	=	0.0092
Log likelihood = -203.16977	Pseudo R2	=	0.0164

HP2work	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.5291654	.2193581	2.41	0.016	.0992315	.9590993
_cons	-1.253303	.1436065	-8.73	0.000	-1.534766	-.9718391

Logistic model for HP2work

Classified	True		Total
	D	~D	
+	4	2	6
-	89	268	357
Total	93	270	363

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2work != 0

Sensitivity	$\Pr(+ D)$	4.30%
Specificity	$\Pr(- \sim D)$	99.26%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	75.07%
False + rate for true ~D	$\Pr(+ \sim D)$	0.74%
False - rate for true D	$\Pr(- D)$	95.70%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	24.93%
Correctly classified		74.93%

Logistic model for HP2work, goodness-of-fit test

```

number of observations =      363
number of covariate patterns =    253
Pearson chi2(251) =      270.20
Prob > chi2 =      0.1934

```

```

Iteration 0:  log likelihood = -172.87291
Iteration 1:  log likelihood = -172.87274
Iteration 2:  log likelihood = -172.87274

```

Logistic regression	Number of obs	=	340
	LR chi2(1)	=	0.00
	Prob > chi2	=	0.9849
Log likelihood = -172.87274	Pseudo R2	=	0.0000

HP2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.001512	.079662	0.02	0.985	-.1546227	.1576466
_cons	-1.350578	.1384628	-9.75	0.000	-1.62196	-1.079195

Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	0	0	0
-	70	270	340
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	.%
Negative predictive value	$\Pr(\sim D -)$	79.41%
False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	.%
False - rate for classified -	$\Pr(D -)$	20.59%
Correctly classified		79.41%

Logistic model for HP2hmcare, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    212
Pearson chi2(210) =    214.39
Prob > chi2 =    0.4031

```

```

Iteration 0:  log likelihood = -233.72859
Iteration 1:  log likelihood = -233.68175
Iteration 2:  log likelihood = -233.68169
Iteration 3:  log likelihood = -233.68169

```

Logistic regression	Number of obs	=	363
	LR chi2(1)	=	0.09
	Prob > chi2	=	0.7594
Log likelihood = -233.68169	Pseudo R2	=	0.0002

HP2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	-.0632884	.2096625	-0.30	0.763	-.4742193	.3476424
_cons	-.6229243	.1302352	-4.78	0.000	-.8781805	-.3676681

Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	0	0	0
-	125	238	363
Total	125	238	363

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	.%
Negative predictive value	$\Pr(\sim D -)$	65.56%

False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	.%
False - rate for classified -	$\Pr(D -)$	34.44%

Correctly classified	65.56%
----------------------	---------------

Logistic model for HP2hmcare, goodness-of-fit test

```

      number of observations =      363
number of covariate patterns =      253
      Pearson chi2(251) =      278.20
            Prob > chi2 =      0.1146

```

```

Iteration 0:  log likelihood = -125.15243
Iteration 1:  log likelihood = -123.88677
Iteration 2:  log likelihood = -123.70274
Iteration 3:  log likelihood = -123.43192
Iteration 4:  log likelihood = -123.4306
Iteration 5:  log likelihood = -123.4306

```

Logistic regression	Number of obs	=	340
	LR chi2(1)	=	3.44
	Prob > chi2	=	0.0635
Log likelihood = -123.4306	Pseudo R2	=	0.0138

HP2probsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.1384454	.0891383	1.55	0.120	-.0362625	.3131532
_cons	-2.060115	.1739293	-11.84	0.000	-2.40101	-1.71922

Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	1	0	1
-	40	299	339
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2probsoc != 0

Sensitivity	$\Pr(+ D)$	2.44%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	100.00%
Negative predictive value	$\Pr(\sim D -)$	88.20%
False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	97.56%
False + rate for classified +	$\Pr(\sim D +)$	0.00%
False - rate for classified -	$\Pr(D -)$	11.80%
Correctly classified		88.24%

Logistic model for HP2probsoc, goodness-of-fit test

number of observations =	340
number of covariate patterns =	212
Pearson chi2(210) =	236.36
Prob > chi2 =	0.1023

Iteration 0: log likelihood = **-183.5701**
 Iteration 1: log likelihood = **-174.2547**
 Iteration 2: log likelihood = **-174.21827**
 Iteration 3: log likelihood = **-174.2181**
 Iteration 4: log likelihood = **-174.2181**

Logistic regression

Number of obs = **363**
 LR chi2(1) = **18.70**
 Prob > chi2 = **0.0000**
 Pseudo R2 = **0.0509**

Log likelihood = **-174.2181**

HP2probsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	1.066471	.3458273	3.08	0.002	.3886619	1.74428
_cons	-1.742732	.1750064	-9.96	0.000	-2.085738	-1.399725

Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	5	2	7
-	69	287	356
Total	74	289	363

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2probsoc != 0

Sensitivity	Pr(+ D)	6.76%
Specificity	Pr(- ~D)	99.31%
Positive predictive value	Pr(D +)	71.43%
Negative predictive value	Pr(~D -)	80.62%

False + rate for true ~D	Pr(+ ~D)	0.69%
False - rate for true D	Pr(- D)	93.24%
False + rate for classified +	Pr(~D +)	28.57%
False - rate for classified -	Pr(D -)	19.38%

Correctly classified	80.44%
----------------------	---------------

Logistic model for HP2probsoc, goodness-of-fit test

```

      number of observations =      363
number of covariate patterns =      253
      Pearson chi2(251) =      275.26
      Prob > chi2 =      0.1402

```

```

Iteration 0:  log likelihood = -81.506236
Iteration 1:  log likelihood = -81.410884
Iteration 2:  log likelihood = -81.408212
Iteration 3:  log likelihood = -81.408194
Iteration 4:  log likelihood = -81.408194

```

```

Logistic regression                                Number of obs   =      340
                                                    LR chi2(1)      =      0.20
                                                    Prob > chi2     =      0.6579
Log likelihood = -81.408194                      Pseudo R2      =      0.0012

```

HP2pbfhm	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	-.1107434	.3490104	-0.32	0.751	-.7947912	.5733044
_cons	-2.631874	.2460769	-10.70	0.000	-3.114176	-2.149572

Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	0	0	0
-	22	318	340
Total	22	318	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2pbfhm != 0

Sensitivity	Pr(+ D)	0.00%
Specificity	Pr(- ~D)	100.00%
Positive predictive value	Pr(D +)	0.00%
Negative predictive value	Pr(~D -)	93.53%
False + rate for true ~D	Pr(+ ~D)	0.00%
False - rate for true D	Pr(- D)	100.00%
False + rate for classified +	Pr(~D +)	0.00%
False - rate for classified -	Pr(D -)	6.47%
Correctly classified		93.53%

Logistic model for HP2pbfhm, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    212
    Pearson chi2(210) =    250.62
        Prob > chi2 =      0.0288

```

```

Iteration 0:  log likelihood = -139.89675
Iteration 1:  log likelihood = -139.43271
Iteration 2:  log likelihood = -139.35378
Iteration 3:  log likelihood = -139.3536
Iteration 4:  log likelihood = -139.3536

```

```

Logistic regression                                Number of obs   =      363
                                                    LR chi2(1)      =      1.09
                                                    Prob > chi2     =      0.2973
Log likelihood = -139.3536                        Pseudo R2      =      0.0039

```

HP2pbfhm	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.2461605	.2198912	1.12	0.263	-.1848183	.6771394
_cons	-1.995488	.179138	-11.14	0.000	-2.346592	-1.644384

Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	0	0	0
-	47	316	363
Total	47	316	363

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2pbfhm != 0

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	.%
Negative predictive value	$\Pr(\sim D -)$	87.05%
False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	.%
False - rate for classified -	$\Pr(D -)$	12.95%

Correctly classified **87.05%**

Logistic model for HP2pbfhm, goodness-of-fit test

number of observations = **363**
number of covariate patterns = **253**
Pearson chi2(**251**) = **271.27**
Prob > chi2 = **0.1811**

Iteration 0: log likelihood = **-171.51396**
Iteration 1: log likelihood = **-171.01815**
Iteration 2: log likelihood = **-170.9595**
Iteration 3: log likelihood = **-170.95837**
Iteration 4: log likelihood = **-170.95837**

Logistic regression	Number of obs	=	340
	LR chi2(1)	=	1.11
	Prob > chi2	=	0.2918
Log likelihood = -170.95837	Pseudo R2	=	0.0032

HP2sxlife	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.0718092	.0688452	1.04	0.297	-.0631249	.2067434
_cons	-1.401935	.1391936	-10.07	0.000	-1.67475	-1.129121

Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	0	1	1
-	69	270	339
Total	69	271	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2sxlife $\neq 0$

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	99.63%
Positive predictive value	$\Pr(D +)$	0.00%
Negative predictive value	$\Pr(\sim D -)$	79.65%
False + rate for true $\sim D$	$\Pr(+ \sim D)$	0.37%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	100.00%
False - rate for classified -	$\Pr(D -)$	20.35%
Correctly classified		79.41%

Logistic model for HP2sxlife, goodness-of-fit test

number of observations = **340**
 number of covariate patterns = **212**
 Pearson $\chi^2(210)$ = **249.01**
 Prob > χ^2 = **0.0337**

Iteration 0: log likelihood = **-207.62116**
 Iteration 1: log likelihood = **-201.39188**
 Iteration 2: log likelihood = **-201.38495**
 Iteration 3: log likelihood = **-201.38495**

Logistic regression	Number of obs	=	363
	LR $\chi^2(1)$	=	12.47
	Prob > χ^2	=	0.0004
Log likelihood = -201.38495	Pseudo R ²	=	0.0300

HP2sxlife	Coef.	Std. Err.	z	$P> z $	[95% Conf. Interval]	
avgcumdosew1	.7954962	.2829573	2.81	0.005	.2409102	1.350082
_cons	-1.327626	.1524624	-8.71	0.000	-1.626446	-1.028805

Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	5	2	7
-	89	267	356
Total	94	269	363

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2sxlife != 0

Sensitivity	$\Pr(+ D)$	5.32%
Specificity	$\Pr(- \sim D)$	99.26%
Positive predictive value	$\Pr(D +)$	71.43%
Negative predictive value	$\Pr(\sim D -)$	75.00%

False + rate for true ~D	$\Pr(+ \sim D)$	0.74%
False - rate for true D	$\Pr(- D)$	94.68%
False + rate for classified +	$\Pr(\sim D +)$	28.57%
False - rate for classified -	$\Pr(D -)$	25.00%

Correctly classified	74.93%
----------------------	--------

Logistic model for HP2sxlife, goodness-of-fit test

```

number of observations =      363
number of covariate patterns =    253
Pearson chi2(251) =      287.01
Prob > chi2 =      0.0587

```

```

Iteration 0:  log likelihood = -119.06428
Iteration 1:  log likelihood = -119.03888
Iteration 2:  log likelihood = -119.03876
Iteration 3:  log likelihood = -119.03876

```

Logistic regression	Number of obs	=	340
	LR chi2(1)	=	0.05
	Prob > chi2	=	0.8213
Log likelihood = -119.03876	Pseudo R2	=	0.0002

HP2inthob	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	-.0276429	.1341516	-0.21	0.837	-.2905751	.2352894
_cons	-2.061705	.1795207	-11.48	0.000	-2.413559	-1.709851

Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	0	0	0
-	38	302	340
Total	38	302	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	.%
Negative predictive value	$\Pr(\sim D -)$	88.82%
False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	.%
False - rate for classified -	$\Pr(D -)$	11.18%
Correctly classified		88.82%

Logistic model for HP2inthob, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    212
Pearson chi2(210) =    264.01
Prob > chi2 =    0.0068

```

```

Iteration 0: log likelihood = -172.11257
Iteration 1: log likelihood = -170.06689
Iteration 2: log likelihood = -169.70579
Iteration 3: log likelihood = -169.70055
Iteration 4: log likelihood = -169.70055

```

Logistic regression	Number of obs	=	363
	LR chi2(1)	=	4.82
	Prob > chi2	=	0.0281
Log likelihood = -169.70055	Pseudo R2	=	0.0140

HP2inthob	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.4479912	.2012295	2.23	0.026	.0535886	.8423938
_cons	-1.670514	.1581676	-10.56	0.000	-1.980517	-1.360512

Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	2	1	3
-	64	296	360
Total	66	297	363

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	3.03%
Specificity	$\Pr(- \sim D)$	99.66%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	82.22%

False + rate for true ~D	$\Pr(+ \sim D)$	0.34%
False - rate for true D	$\Pr(- D)$	96.97%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	17.78%

Correctly classified	82.09%
----------------------	---------------

Logistic model for HP2inthob, goodness-of-fit test

```

      number of observations =      363
number of covariate patterns =      253
      Pearson chi2(251) =      272.21
          Prob > chi2 =      0.1709

```

```

Iteration 0:  log likelihood = -125.15243
Iteration 1:  log likelihood = -125.15124
Iteration 2:  log likelihood = -125.15124

```

```

Logistic regression
Log likelihood = -125.15124
Number of obs   =      340
LR chi2(1)      =       0.00
Prob > chi2     =      0.9611
Pseudo R2      =      0.0000

```

HP2vacatn	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	-.0050166	.1045628	-0.05	0.962	-.209956	.1999228
_cons	-1.984744	.1722028	-11.53	0.000	-2.322256	-1.647233

Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	0	0	0
-	41	299	340
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2vacatn != 0

Sensitivity	$\Pr(+ D)$	0.00%
Specificity	$\Pr(- \sim D)$	100.00%
Positive predictive value	$\Pr(D +)$	.%
Negative predictive value	$\Pr(\sim D -)$	87.94%
False + rate for true ~D	$\Pr(+ \sim D)$	0.00%
False - rate for true D	$\Pr(- D)$	100.00%
False + rate for classified +	$\Pr(\sim D +)$	.%
False - rate for classified -	$\Pr(D -)$	12.06%
Correctly classified		87.94%

Logistic model for HP2vacatn, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    212
Pearson chi2(210) =    238.04
Prob > chi2 =      0.0895

```

Iteration 0: log likelihood = **-167.516**
 Iteration 1: log likelihood = **-166.78704**
 Iteration 2: log likelihood = **-166.7022**
 Iteration 3: log likelihood = **-166.70218**
 Iteration 4: log likelihood = **-166.70218**

Logistic regression

Number of obs = **363**
 LR chi2(1) = **1.63**
 Prob > chi2 = **0.2020**
 Pseudo R2 = **0.0049**

Log likelihood = **-166.70218**

HP2vacatn	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
avgcumdosew1	.2732774	.2032816	1.34	0.179	-.1251473	.6717021
_cons	-1.659547	.1595045	-10.40	0.000	-1.97217	-1.346924

Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	0	0	0
-	63	300	363
Total	63	300	363

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2vacatn != 0

Sensitivity	Pr(+ D)	0.00%
Specificity	Pr(- ~D)	100.00%
Positive predictive value	Pr(D +)	.%
Negative predictive value	Pr(~D -)	82.64%

False + rate for true ~D	Pr(+ ~D)	0.00%
False - rate for true D	Pr(- D)	100.00%
False + rate for classified +	Pr(~D +)	.%
False - rate for classified -	Pr(D -)	17.36%

Correctly classified	82.64%
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Logistic model for HP2vacatn, goodness-of-fit test

```

134 .
135 . * + * dose affects women in work (p = .529 se=.219 z=2.41 p=0.016
> )
136 . * + * dose affects women in social life (b = 1.066 se=.345 z=3.08 p=.002
>
137 . * + * dose affects women in sex life (b = .795 se=.283 z=2.81 p=.005
>
138 . * + * dose affects women in interests and hobbies (b = .448 se=.201 z=2.23
> p=.026
139 .
140 .
141 .
142 . *----- Full or general model to be trimmed
143 . cap gen whpel = WHPel
144 . cap gen whpsleep = WHPsleep
145 . cap gen whppain = WHPpain
146 .
147 . title " H1: Test of hypothesis 1: Pt 2 wave 1 general models"

```

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```

148 . forvalues j=1/1 {
      2. set more off
      3.   foreach var in HP2work HP2hmcare HP2probsoc HP2pbfhm HP2sxlife HP2intho
> b ///
>   HP2vacatn {
      4.     forvalues k=1/2 {
      5.       local wlbfs bf1 bf4 bf9 bf10 bf11 bf4m bf15m bf20 bf22 bf30 bf40
      6.       di _skip(4)
      7.
149 . title "Full main model for `var' for wave= `j' "
      8.       di _skip(4)
      9.       title "chunk 2 H1 test:Gender= `k'   model Wave = `j' for `e(depvar)' "
     10.       di _skip(4)
     11.
150 .
151 .       logit `var' age ///
>         radhlw`j' radfmw`j' radchw`j' bfl bf20   ///
>         deaw`j'      ///
>         shhlw`j' shjobw`j' shrelaw`j' suprtw`j'   ///
>         icdxcnt illw`j'      ///
>         whpel whppain      ///
>         avgcumdosew`j' if gender==`k',   difficult iterate(500) nolog
> g
     12.             estat class
     13.             estat gof
     14.             fitstat
     15. }
     16. }
     17. }

```

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Full main model for HP2work for wave= 1
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```


HP2work	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0044711	.0147919	0.30	0.762	-.0245204	.0334626
radhlw1	.0055036	.0093169	0.59	0.555	-.0127573	.0237645
radfmw1	-.0044257	.0098833	-0.45	0.654	-.0237966	.0149453
radchw1	-.0000483	.0046926	-0.01	0.992	-.0092456	.0091491
bf1	-.018817	.0510829	-0.37	0.713	-.1189376	.0813035
bf20	.0273587	.047912	0.57	0.568	-.0665471	.1212644
deaw1	-.2405105	.3359175	-0.72	0.474	-.8988968	.4178758
shhlw1	.0006665	.0062215	0.11	0.915	-.0115273	.0128603
shjobw1	-.0004676	.0057551	-0.08	0.935	-.0117473	.0108122
shrelaw1	.0003096	.0048879	0.06	0.949	-.0092704	.0098896
suprtw1	-.0004976	.0063567	-0.08	0.938	-.0129564	.0119612
icdxcnt	.2773482	.1040751	2.66	0.008	.0733648	.4813316
illw1	-.401163	.4018596	-1.00	0.318	-1.188793	.3864674
whpel	.0172129	.005632	3.06	0.002	.0061745	.0282514
whppain	.0270562	.0098111	2.76	0.006	.0078268	.0462856
avgcumdosew1	-.0305113	.080402	-0.38	0.704	-.1880963	.1270736
_cons	-4.466927	1.9708	-2.27	0.023	-8.329623	-.6042303

Logistic model for HP2work

Classified	True		Total
	D	~D	
+	20	19	39
-	50	251	301
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2work != 0

Sensitivity	$\Pr(+ D)$	28.57%
Specificity	$\Pr(- \sim D)$	92.96%
Positive predictive value	$\Pr(D +)$	51.28%
Negative predictive value	$\Pr(\sim D -)$	83.39%
False + rate for true ~D	$\Pr(+ \sim D)$	7.04%
False - rate for true D	$\Pr(- D)$	71.43%
False + rate for classified +	$\Pr(\sim D +)$	48.72%
False - rate for classified -	$\Pr(D -)$	16.61%
Correctly classified		79.71%

Logistic model for HP2work, goodness-of-fit test

```
number of observations =      340
number of covariate patterns =    338
Pearson chi2(321) =    294.56
Prob > chi2 =      0.8525
```

Measures of Fit for **logit** of **HP2work**

Log-Lik Intercept Only:	-172.873	Log-Lik Full Model:	-137.027
D(323):	274.054	LR(16):	71.692
		Prob > LR:	0.000
McFadden's R2:	0.207	McFadden's Adj R2:	0.109
Maximum Likelihood R2:	0.190	Cragg & Uhler's R2:	0.298
McKelvey and Zavoina's R2:	0.318	Efron's R2:	0.199
Variance of y*:	4.826	Variance of error:	3.290
Count R2:	0.797	Adj Count R2:	0.014
AIC:	0.906	AIC*n:	308.054
BIC:	-1608.695	BIC':	21.571

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Logistic model for HP2work

Classified	True		Total
	D	~D	
+	34	22	56
-	59	246	305
Total	93	268	361

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2work != 0

Sensitivity	$\Pr(+ D)$	36.56%
Specificity	$\Pr(- \sim D)$	91.79%
Positive predictive value	$\Pr(D +)$	60.71%
Negative predictive value	$\Pr(\sim D -)$	80.66%
False + rate for true ~D	$\Pr(+ \sim D)$	8.21%
False - rate for true D	$\Pr(- D)$	63.44%
False + rate for classified +	$\Pr(\sim D +)$	39.29%
False - rate for classified -	$\Pr(D -)$	19.34%
Correctly classified		77.56%

Logistic model for HP2work, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson chi2(344) =	341.33
Prob > chi2 =	0.5306

Measures of Fit for **logit** of **HP2work**

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Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	29	13	42
-	41	257	298
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	41.43%
Specificity	$\Pr(- \sim D)$	95.19%
Positive predictive value	$\Pr(D +)$	69.05%
Negative predictive value	$\Pr(\sim D -)$	86.24%
False + rate for true ~D	$\Pr(+ \sim D)$	4.81%
False - rate for true D	$\Pr(- D)$	58.57%
False + rate for classified +	$\Pr(\sim D +)$	30.95%
False - rate for classified -	$\Pr(D -)$	13.76%
Correctly classified		84.12%

Logistic model for HP2hmcare, goodness-of-fit test

number of observations =	340
number of covariate patterns =	338
Pearson chi2(321) =	328.90
Prob > chi2 =	0.3686

Measures of Fit for **logit** of **HP2hmcare**

Log-Lik Intercept Only:	-172.873	Log-Lik Full Model:	-115.753
D(323):	231.507	LR(16):	114.239
		Prob > LR:	0.000
McFadden's R2:	0.330	McFadden's Adj R2:	0.232
Maximum Likelihood R2:	0.285	Cragg & Uhler's R2:	0.447
McKelvey and Zavoina's R2:	0.488	Efron's R2:	0.356
Variance of y*:	6.421	Variance of error:	3.290
Count R2:	0.841	Adj Count R2:	0.229
AIC:	0.781	AIC*n:	265.507
BIC:	-1651.243	BIC':	-20.976

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Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	80	27	107
-	45	209	254
Total	125	236	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	64.00%
Specificity	$\Pr(- \sim D)$	88.56%
Positive predictive value	$\Pr(D +)$	74.77%
Negative predictive value	$\Pr(\sim D -)$	82.28%
False + rate for true ~D	$\Pr(+ \sim D)$	11.44%
False - rate for true D	$\Pr(- D)$	36.00%
False + rate for classified +	$\Pr(\sim D +)$	25.23%
False - rate for classified -	$\Pr(D -)$	17.72%
Correctly classified		80.06%

Logistic model for HP2hmcare, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson chi2(344) =	347.20
Prob > chi2 =	0.4416

Measures of Fit for **logit** of **HP2hmcare**

Log-Lik Intercept Only:	-232.881	Log-Lik Full Model:	-153.722
D(344):	307.445	LR(16):	158.318
		Prob > LR:	0.000
McFadden's R2:	0.340	McFadden's Adj R2:	0.267
Maximum Likelihood R2:	0.355	Cragg & Uhler's R2:	0.490
McKelvey and Zavoina's R2:	0.515	Efron's R2:	0.394
Variance of y*:	6.783	Variance of error:	3.290
Count R2:	0.801	Adj Count R2:	0.424
AIC:	0.946	AIC*n:	341.445
BIC:	-1718.329	BIC':	-64.096

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Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	23	4	27
-	18	295	313
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2probsoc != 0

Sensitivity	$\Pr(+ D)$	56.10%
Specificity	$\Pr(- \sim D)$	98.66%
Positive predictive value	$\Pr(D +)$	85.19%
Negative predictive value	$\Pr(\sim D -)$	94.25%
False + rate for true ~D	$\Pr(+ \sim D)$	1.34%
False - rate for true D	$\Pr(- D)$	43.90%
False + rate for classified +	$\Pr(\sim D +)$	14.81%
False - rate for classified -	$\Pr(D -)$	5.75%
Correctly classified		93.53%

Logistic model for HP2probsoc, goodness-of-fit test

number of observations =	340
number of covariate patterns =	338
Pearson chi2(321) =	263.41
Prob > chi2 =	0.9918

Measures of Fit for **logit** of **HP2probsoc**

Log-Lik Intercept Only:	-125.152	Log-Lik Full Model:	-69.448
D(323):	138.895	LR(16):	111.410
		Prob > LR:	0.000
McFadden's R2:	0.445	McFadden's Adj R2:	0.309
Maximum Likelihood R2:	0.279	Cragg & Uhler's R2:	0.536
McKelvey and Zavoina's R2:	0.599	Efron's R2:	0.442
Variance of y*:	8.194	Variance of error:	3.290
Count R2:	0.935	Adj Count R2:	0.463
AIC:	0.509	AIC*n:	172.895
BIC:	-1743.854	BIC':	-18.146

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Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	41	11	52
-	33	276	309
Total	74	287	361

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2probsoc != 0

Sensitivity	$\Pr(+ D)$	55.41%
Specificity	$\Pr(- \sim D)$	96.17%
Positive predictive value	$\Pr(D +)$	78.85%
Negative predictive value	$\Pr(\sim D -)$	89.32%
False + rate for true ~D	$\Pr(+ \sim D)$	3.83%
False - rate for true D	$\Pr(- D)$	44.59%
False + rate for classified +	$\Pr(\sim D +)$	21.15%
False - rate for classified -	$\Pr(D -)$	10.68%
Correctly classified		87.81%

Logistic model for HP2probsoc, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson chi2(344) =	340.95
Prob > chi2 =	0.5364

Measures of Fit for **logit** of **HP2probsoc**

Log-Lik Intercept Only:	-183.113	Log-Lik Full Model:	-105.537
D(344):	211.074	LR(16):	155.152
		Prob > LR:	0.000
McFadden's R2:	0.424	McFadden's Adj R2:	0.331
Maximum Likelihood R2:	0.349	Cragg & Uhler's R2:	0.548
McKelvey and Zavoina's R2:	0.597	Efron's R2:	0.457
Variance of y*:	8.172	Variance of error:	3.290
Count R2:	0.878	Adj Count R2:	0.405
AIC:	0.679	AIC*n:	245.074
BIC:	-1814.700	BIC':	-60.930

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Note: 1 failure and 0 successes completely determined.

Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	4	3	7
-	18	315	333
Total	22	318	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2pbfhm != 0

Sensitivity	$\Pr(+ D)$	18.18%
Specificity	$\Pr(- \sim D)$	99.06%
Positive predictive value	$\Pr(D +)$	57.14%
Negative predictive value	$\Pr(\sim D -)$	94.59%
False + rate for true ~D	$\Pr(+ \sim D)$	0.94%
False - rate for true D	$\Pr(- D)$	81.82%
False + rate for classified +	$\Pr(\sim D +)$	42.86%
False - rate for classified -	$\Pr(D -)$	5.41%
Correctly classified		93.82%

Logistic model for HP2pbfhm, goodness-of-fit test

number of observations =	340
number of covariate patterns =	338
Pearson chi2(321) =	275.35
Prob > chi2 =	0.9691

Measures of Fit for **logit** of **HP2pbfhm**

Log-Lik Intercept Only:	-81.506	Log-Lik Full Model:	-57.112
D(323):	114.225	LR(16):	48.788
		Prob > LR:	0.000
McFadden's R2:	0.299	McFadden's Adj R2:	0.091
Maximum Likelihood R2:	0.134	Cragg & Uhler's R2:	0.351
McKelvey and Zavoina's R2:	0.665	Efron's R2:	0.217
Variance of y*:	9.830	Variance of error:	3.290
Count R2:	0.938	Adj Count R2:	0.045
AIC:	0.436	AIC*n:	148.225
BIC:	-1768.525	BIC':	44.475

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Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	22	10	32
-	25	304	329
Total	47	314	361

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2pbfhm != 0

Sensitivity	$\Pr(+ D)$	46.81%
Specificity	$\Pr(- \sim D)$	96.82%
Positive predictive value	$\Pr(D +)$	68.75%
Negative predictive value	$\Pr(\sim D -)$	92.40%
False + rate for true ~D	$\Pr(+ \sim D)$	3.18%
False - rate for true D	$\Pr(- D)$	53.19%
False + rate for classified +	$\Pr(\sim D +)$	31.25%
False - rate for classified -	$\Pr(D -)$	7.60%
Correctly classified		90.30%

Logistic model for HP2pbfhm, goodness-of-fit test

```

      number of observations =      361
number of covariate patterns =      361
      Pearson chi2(344) =      451.49
          Prob > chi2 =      0.0001
  
```

Measures of Fit for **logit** of **HP2pbfhm**

Log-Lik Intercept Only:	-139.619	Log-Lik Full Model:	-91.203
D(344):	182.406	LR(16):	96.831
		Prob > LR:	0.000
McFadden's R2:	0.347	McFadden's Adj R2:	0.225
Maximum Likelihood R2:	0.235	Cragg & Uhler's R2:	0.437
McKelvey and Zavoina's R2:	0.516	Efron's R2:	0.364
Variance of y*:	6.796	Variance of error:	3.290
Count R2:	0.903	Adj Count R2:	0.255
AIC:	0.599	AIC*n:	216.406
BIC:	-1843.368	BIC':	-2.609

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Logistic regression	Number of obs	=	340
	LR chi2(16)	=	114.99
	Prob > chi2	=	0.0000
Log likelihood = -114.01992	Pseudo R2	=	0.3352

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Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	30	14	44
-	39	257	296
Total	69	271	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2sxlife != 0

Sensitivity	$\Pr(+ D)$	43.48%
Specificity	$\Pr(- \sim D)$	94.83%
Positive predictive value	$\Pr(D +)$	68.18%
Negative predictive value	$\Pr(\sim D -)$	86.82%
False + rate for true ~D	$\Pr(+ \sim D)$	5.17%
False - rate for true D	$\Pr(- D)$	56.52%
False + rate for classified +	$\Pr(\sim D +)$	31.82%
False - rate for classified -	$\Pr(D -)$	13.18%
Correctly classified		84.41%

Logistic model for HP2sxlife, goodness-of-fit test

number of observations =	340
number of covariate patterns =	338
Pearson chi2(321) =	275.73
Prob > chi2 =	0.9680

Measures of Fit for **logit** of **HP2sxlife**

Log-Lik Intercept Only:	-171.514	Log-Lik Full Model:	-114.020
D(323):	228.040	LR(16):	114.988
		Prob > LR:	0.000
McFadden's R2:	0.335	McFadden's Adj R2:	0.236
Maximum Likelihood R2:	0.287	Cragg & Uhler's R2:	0.452
McKelvey and Zavoina's R2:	0.507	Efron's R2:	0.337
Variance of y*:	6.674	Variance of error:	3.290
Count R2:	0.844	Adj Count R2:	0.232
AIC:	0.771	AIC*n:	262.040
BIC:	-1654.710	BIC':	-21.725

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Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	50	21	71
-	44	246	290
Total	94	267	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2sxlife != 0

Sensitivity	$\Pr(+ D)$	53.19%
Specificity	$\Pr(- \sim D)$	92.13%
Positive predictive value	$\Pr(D +)$	70.42%
Negative predictive value	$\Pr(\sim D -)$	84.83%
False + rate for true ~D	$\Pr(+ \sim D)$	7.87%
False - rate for true D	$\Pr(- D)$	46.81%
False + rate for classified +	$\Pr(\sim D +)$	29.58%
False - rate for classified -	$\Pr(D -)$	15.17%
Correctly classified		81.99%

Logistic model for HP2sxlife, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson chi2(344) =	337.28
Prob > chi2 =	0.5919

Measures of Fit for **logit** of **HP2sxlife**

Log-Lik Intercept Only:	-207.020	Log-Lik Full Model:	-142.368
D(344):	284.735	LR(16):	129.304
		Prob > LR:	0.000
McFadden's R2:	0.312	McFadden's Adj R2:	0.230
Maximum Likelihood R2:	0.301	Cragg & Uhler's R2:	0.441
McKelvey and Zavoina's R2:	0.466	Efron's R2:	0.349
Variance of y*:	6.156	Variance of error:	3.290
Count R2:	0.820	Adj Count R2:	0.309
AIC:	0.883	AIC*n:	318.735
BIC:	-1741.039	BIC':	-35.082

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Note: 28 failures and 0 successes completely determined.

Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	14	7	21
-	24	295	319
Total	38	302	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	36.84%
Specificity	$\Pr(- \sim D)$	97.68%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	92.48%
False + rate for true ~D	$\Pr(+ \sim D)$	2.32%
False - rate for true D	$\Pr(- D)$	63.16%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	7.52%
Correctly classified		90.88%

Logistic model for HP2inthob, goodness-of-fit test

number of observations =	340
number of covariate patterns =	338
Pearson chi2(321) =	247.06
Prob > chi2 =	0.9992

Measures of Fit for **logit** of HP2inthob

Log-Lik Intercept Only:	-119.064	Log-Lik Full Model:	-73.074
D(323):	146.149	LR(16):	91.980
		Prob > LR:	0.000
McFadden's R2:	0.386	McFadden's Adj R2:	0.243
Maximum Likelihood R2:	0.237	Cragg & Uhler's R2:	0.471
McKelvey and Zavoina's R2:	0.969	Efron's R2:	0.345
Variance of y*:	106.254	Variance of error:	3.290
Count R2:	0.909	Adj Count R2:	0.184
AIC:	0.530	AIC*n:	180.149
BIC:	-1736.600	BIC':	1.284

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Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	34	9	43
-	32	286	318
Total	66	295	361

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	51.52%
Specificity	$\Pr(- \sim D)$	96.95%
Positive predictive value	$\Pr(D +)$	79.07%
Negative predictive value	$\Pr(\sim D -)$	89.94%
False + rate for true ~D	$\Pr(+ \sim D)$	3.05%
False - rate for true D	$\Pr(- D)$	48.48%
False + rate for classified +	$\Pr(\sim D +)$	20.93%
False - rate for classified -	$\Pr(D -)$	10.06%
Correctly classified		88.64%

Logistic model for HP2inthob, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson chi2(344) =	359.30
Prob > chi2 =	0.2742

Measures of Fit for **logit** of **HP2inthob**

Log-Lik Intercept Only:	-171.710	Log-Lik Full Model:	-118.181
D(344):	236.362	LR(16):	107.058
		Prob > LR:	0.000
McFadden's R2:	0.312	McFadden's Adj R2:	0.213
Maximum Likelihood R2:	0.257	Cragg & Uhler's R2:	0.418
McKelvey and Zavoina's R2:	0.488	Efron's R2:	0.350
Variance of y*:	6.429	Variance of error:	3.290
Count R2:	0.886	Adj Count R2:	0.379
AIC:	0.749	AIC*n:	270.362
BIC:	-1789.412	BIC':	-12.835

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Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	20	5	25
-	21	294	315
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2vacatn != 0

Sensitivity	$\Pr(+ D)$	48.78%
Specificity	$\Pr(- \sim D)$	98.33%
Positive predictive value	$\Pr(D +)$	80.00%
Negative predictive value	$\Pr(\sim D -)$	93.33%
False + rate for true ~D	$\Pr(+ \sim D)$	1.67%
False - rate for true D	$\Pr(- D)$	51.22%
False + rate for classified +	$\Pr(\sim D +)$	20.00%
False - rate for classified -	$\Pr(D -)$	6.67%
Correctly classified		92.35%

Logistic model for HP2vacatn, goodness-of-fit test

```

      number of observations =      340
number of covariate patterns =      338
      Pearson chi2(321) =      306.80
          Prob > chi2 =      0.7062
  
```

Measures of Fit for **logit** of **HP2vacatn**

Log-Lik Intercept Only:	-125.152	Log-Lik Full Model:	-75.801
D(323):	151.603	LR(16):	98.702
		Prob > LR:	0.000
McFadden's R2:	0.394	McFadden's Adj R2:	0.258
Maximum Likelihood R2:	0.252	Cragg & Uhler's R2:	0.484
McKelvey and Zavoina's R2:	0.653	Efron's R2:	0.385
Variance of y*:	9.479	Variance of error:	3.290
Count R2:	0.924	Adj Count R2:	0.366
AIC:	0.546	AIC*n:	185.603
BIC:	-1731.147	BIC':	-5.439

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Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	31	11	42
-	32	287	319
Total	63	298	361

Classified + if predicted $\Pr(D) \geq .5$
 True D defined as HP2vacatn != 0

Sensitivity	$\Pr(+ D)$	49.21%
Specificity	$\Pr(- \sim D)$	96.31%
Positive predictive value	$\Pr(D +)$	73.81%
Negative predictive value	$\Pr(\sim D -)$	89.97%
False + rate for true ~D	$\Pr(+ \sim D)$	3.69%
False - rate for true D	$\Pr(- D)$	50.79%
False + rate for classified +	$\Pr(\sim D +)$	26.19%
False - rate for classified -	$\Pr(D -)$	10.03%
Correctly classified		88.09%

Logistic model for HP2vacatn, goodness-of-fit test

```

      number of observations =      361
number of covariate patterns =      361
      Pearson chi2(344) =      393.10
              Prob > chi2 =      0.0348
  
```

Measures of Fit for **logit** of HP2vacatn

Log-Lik Intercept Only:	-167.134	Log-Lik Full Model:	-115.044
D(344):	230.087	LR(16):	104.180
		Prob > LR:	0.000
McFadden's R2:	0.312	McFadden's Adj R2:	0.210
Maximum Likelihood R2:	0.251	Cragg & Uhler's R2:	0.415
McKelvey and Zavoina's R2:	0.483	Efron's R2:	0.350
Variance of y*:	6.365	Variance of error:	3.290
Count R2:	0.881	Adj Count R2:	0.317
AIC:	0.732	AIC*n:	264.087
BIC:	-1795.687	BIC':	-9.958

```

152 .
153 . * Notes from analysis
154 . * + *      dose almost affects women in home care  w1(b = - 5.512, se=.27, -1.
    > 87, p=.062)
155 . * + *      dose affects women in their social life (b = .7561, se=.310, z=2.42
    >  p=.015)
156 . * + *      dose does not affect men in anything
157 . * + *
158 . title " H1: Test of hypothesis 1: Pt 2 wave 1 stepwise backward trimming mod
    > els"

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```

159 . forvalues j=1/1 {
      2. set more off
      3.   foreach var in HP2work HP2hmcare HP2probsoc HP2pbfhm HP2sxlife HP2intho
> b ///
>       HP2vacatn {
      4.         forvalues k=1/2 {
      5. local wlb主 bf1 bf4 bf9 bf10 bf11 bf4m bf15m bf20 bf22 bf30 bf40
      6. di _skip(4)
      7.

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HP2work	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
whppain	.0241253	.0090481	2.67	0.008	.0063914	.0418593
bf20	.0113133	.0066979	1.69	0.091	-.0018144	.024441
icdxcnt	.2676172	.0895948	2.99	0.003	.0920146	.4432198
whpel	.0177362	.0053835	3.29	0.001	.0071848	.0282876
_cons	-3.724149	.5667296	-6.57	0.000	-4.834919	-2.61338

Logistic model for HP2work

Classified	True		Total
	D	~D	
+	20	16	36
-	50	254	304
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2work != 0

Sensitivity	$\Pr(+ D)$	28.57%
Specificity	$\Pr(- \sim D)$	94.07%
Positive predictive value	$\Pr(D +)$	55.56%
Negative predictive value	$\Pr(\sim D -)$	83.55%
False + rate for true ~D	$\Pr(+ \sim D)$	5.93%
False - rate for true D	$\Pr(- D)$	71.43%
False + rate for classified +	$\Pr(\sim D +)$	44.44%
False - rate for classified -	$\Pr(D -)$	16.45%
Correctly classified		80.59%

Logistic model for HP2work, goodness-of-fit test

```

      number of observations =      340
number of covariate patterns =      214
      Pearson chi2(209) =     221.23
              Prob > chi2 =       0.2678

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Measures of Fit for **logit** of **HP2work**

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HP2work	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0430616	.0128257	3.36	0.001	.0179237	.0681995
radhlw1	.0062995	.0037665	1.67	0.094	-.0010827	.0136818
whppain	.0144246	.0069414	2.08	0.038	.0008197	.0280294
whpel	.0138666	.0045881	3.02	0.003	.0048741	.0228591
_cons	-4.521239	.6749507	-6.70	0.000	-5.844118	-3.198359

Logistic model for HP2work

Classified	True		Total
	D	~D	
+	32	22	54
-	61	246	307
Total	93	268	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2work != 0

Sensitivity	$\Pr(+ D)$	34.41%
Specificity	$\Pr(- \sim D)$	91.79%
Positive predictive value	$\Pr(D +)$	59.26%
Negative predictive value	$\Pr(\sim D -)$	80.13%
False + rate for true ~D	$\Pr(+ \sim D)$	8.21%
False - rate for true D	$\Pr(- D)$	65.59%
False + rate for classified +	$\Pr(\sim D +)$	40.74%
False - rate for classified -	$\Pr(D -)$	19.87%
Correctly classified		77.01%

Logistic model for HP2work, goodness-of-fit test

```

number of observations =      361
number of covariate patterns =    337
    Pearson chi2(332) =    352.69
        Prob > chi2 =      0.2083

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Measures of Fit for **logit** of **HP2work**

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HP2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0421012	.0142713	2.95	0.003	.0141299	.0700725
whpel	.0306134	.0057198	5.35	0.000	.0194028	.0418239
whppain	.0416801	.0100067	4.17	0.000	.0220674	.0612928
suprtwl	-.0219742	.0077148	-2.85	0.004	-.0370949	-.0068534
_cons	-4.8777	.7901314	-6.17	0.000	-6.426329	-3.329071

Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	29	12	41
-	41	258	299
Total	70	270	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	41.43%
Specificity	$\Pr(- \sim D)$	95.56%
Positive predictive value	$\Pr(D +)$	70.73%
Negative predictive value	$\Pr(\sim D -)$	86.29%
False + rate for true ~D	$\Pr(+ \sim D)$	4.44%
False - rate for true D	$\Pr(- D)$	58.57%
False + rate for classified +	$\Pr(\sim D +)$	29.27%
False - rate for classified -	$\Pr(D -)$	13.71%
Correctly classified		84.41%

Logistic model for HP2hmcare, goodness-of-fit test

number of observations =	340
number of covariate patterns =	222
Pearson chi2(217) =	256.04
Prob > chi2 =	0.0356

Measures of Fit for **logit** of HP2hmcare

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_cons	-5.557274	.7545551	-7.36	0.000	-7.036174	-4.078373
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Logistic model for HP2hmcare

Classified	True		Total
	D	~D	
+	78	28	106
-	47	208	255
Total	125	236	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2hmcare != 0

Sensitivity	$\Pr(+ D)$	62.40%
Specificity	$\Pr(- \sim D)$	88.14%
Positive predictive value	$\Pr(D +)$	73.58%
Negative predictive value	$\Pr(\sim D -)$	81.57%
False + rate for true ~D	$\Pr(+ \sim D)$	11.86%
False - rate for true D	$\Pr(- D)$	37.60%
False + rate for classified +	$\Pr(\sim D +)$	26.42%
False - rate for classified -	$\Pr(D -)$	18.43%
Correctly classified		79.22%

Logistic model for HP2hmcare, goodness-of-fit test

number of observations =	361
number of covariate patterns =	361
Pearson $\chi^2(351)$ =	336.37
Prob > χ^2 =	0.7036

Measures of Fit for **logit** of **HP2hmcare**

```
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2probsoc for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012    06:19:02   ***
> *
*****
> *
```


HP2probsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0333706	.0199055	1.68	0.094	-.0056435	.0723848
whpel	.0291626	.0079784	3.66	0.000	.0135252	.0448
whppain	.0409491	.0127699	3.21	0.001	.0159204	.0659777
radchwl	-.0213396	.0069551	-3.07	0.002	-.0349713	-.007708
shjobwl	.0190523	.0085805	2.22	0.026	.0022347	.0358699
shrelawl	-.020721	.0070404	-2.94	0.003	-.0345199	-.0069222
shhlwl	.0133953	.0077253	1.73	0.083	-.001746	.0285366
_cons	-5.786632	1.24788	-4.64	0.000	-8.232431	-3.340832

Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	23	6	29
-	18	293	311
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2probsoc != 0

Sensitivity	$\Pr(+ D)$	56.10%
Specificity	$\Pr(- \sim D)$	97.99%
Positive predictive value	$\Pr(D +)$	79.31%
Negative predictive value	$\Pr(\sim D -)$	94.21%

False + rate for true ~D	$\Pr(+ \sim D)$	2.01%
False - rate for true D	$\Pr(- D)$	43.90%
False + rate for classified +	$\Pr(\sim D +)$	20.69%
False - rate for classified -	$\Pr(D -)$	5.79%

Correctly classified	92.94%
----------------------	--------

Logistic model for HP2probsoc, goodness-of-fit test

number of observations =	340
number of covariate patterns =	330
Pearson chi2(322) =	229.07
Prob > chi2 =	1.0000

Measures of Fit for **logit** of **HP2probsoc**

```

*****
> *
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> *
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> *
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> *
*****
Trimmed model for HP2probsoc for wave= 1
*****
> *
*****
> *
*****
> *
*****
1 Jul 2012 06:19:16
> *
*****
> *
*****
> *
*****

```


HP2probsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0896167	.0185234	4.84	0.000	.0533114	.125922
avgcumdosew1	.6947235	.3138168	2.21	0.027	.0796539	1.309793
radfmw1	.0187784	.0052399	3.58	0.000	.0085082	.0290485
whppain	.0339469	.0088357	3.84	0.000	.0166292	.0512645
whpel	.0113771	.0055886	2.04	0.042	.0004237	.0223305
_cons	-9.114844	1.143245	-7.97	0.000	-11.35556	-6.874125

Logistic model for HP2probsoc

Classified	True		Total
	D	~D	
+	45	12	57
-	29	275	304
Total	74	287	361

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2probsoc != 0

Sensitivity	$\Pr(+ D)$	60.81%
Specificity	$\Pr(- \sim D)$	95.82%
Positive predictive value	$\Pr(D +)$	78.95%
Negative predictive value	$\Pr(\sim D -)$	90.46%
False + rate for true ~D	$\Pr(+ \sim D)$	4.18%
False - rate for true D	$\Pr(- D)$	39.19%
False + rate for classified +	$\Pr(\sim D +)$	21.05%
False - rate for classified -	$\Pr(D -)$	9.54%
Correctly classified		88.64%

Logistic model for HP2probsoc, goodness-of-fit test

number of observations =	361
number of covariate patterns =	358
Pearson chi2(352) =	348.12
Prob > chi2 =	0.5484

Measures of Fit for **logit** of **HP2probsoc**

Log-Lik Intercept Only:	-183.113	Log-Lik Full Model:	-108.543
D(355):	217.086	LR(5):	149.139
		Prob > LR:	0.000
McFadden's R2:	0.407	McFadden's Adj R2:	0.374
Maximum Likelihood R2:	0.338	Cragg & Uhler's R2:	0.531
McKelvey and Zavoina's R2:	0.579	Efron's R2:	0.441
Variance of y*:	7.806	Variance of error:	3.290
Count R2:	0.886	Adj Count R2:	0.446
AIC:	0.635	AIC*n:	229.086
BIC:	-1873.465	BIC':	-119.695

```

*****
> *
*****
> *
*****
*****
> *
*****
Trimmed model for HP2pbfhm for wave= 1
*****
> *
*****
> *
*****
> *
*****
1 Jul 2012 06:19:32 *****
> *
*****
> *
*****
> *

```


HP2pbfhm	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
whppain	.0395558	.0147437	2.68	0.007	.0106587	.068453
radhlw1	.0298374	.0080615	3.70	0.000	.0140371	.0456377
whpel	.0259162	.0086694	2.99	0.003	.0089246	.0429079
shjobw1	-.0253531	.0091549	-2.77	0.006	-.0432963	-.0074098
suprtw1	-.0336087	.0147083	-2.29	0.022	-.0624364	-.004781
_cons	-4.488377	.6533291	-6.87	0.000	-5.768878	-3.207875

Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	3	3	6
-	19	315	334
Total	22	318	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2pbfhm != 0

Sensitivity	$\Pr(+ D)$	13.64%
Specificity	$\Pr(- \sim D)$	99.06%
Positive predictive value	$\Pr(D +)$	50.00%
Negative predictive value	$\Pr(\sim D -)$	94.31%
False + rate for true ~D	$\Pr(+ \sim D)$	0.94%
False - rate for true D	$\Pr(- D)$	86.36%
False + rate for classified +	$\Pr(\sim D +)$	50.00%
False - rate for classified -	$\Pr(D -)$	5.69%
Correctly classified		93.53%

Logistic model for HP2pbfhm, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    254
    Pearson chi2(248) =    217.38
        Prob > chi2 =      0.9201

```

Measures of Fit for **logit** of **HP2pbfhm**

Log-Lik Intercept Only:	-81.506	Log-Lik Full Model:	-61.296
D(334):	122.591	LR(5):	40.421
		Prob > LR:	0.000
McFadden's R2:	0.248	McFadden's Adj R2:	0.174
Maximum Likelihood R2:	0.112	Cragg & Uhler's R2:	0.294
McKelvey and Zavoina's R2:	0.479	Efron's R2:	0.165
Variance of y*:	6.309	Variance of error:	3.290
Count R2:	0.935	Adj Count R2:	0.000
AIC:	0.396	AIC*n:	134.591
BIC:	-1824.277	BIC':	-11.277

```

*****
> *
*****
> *
*****
*****
> *
*****
Trimmed model for HP2pbfhm for wave= 1
*****
> *
*****
*****
> *
*****
1 Jul 2012 06:19:48 *****
> *
*****
> *
*****
> *

```


HP2pbfhm	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0398856	.0186257	2.14	0.032	.00338	.0763913
radhlw1	.0134802	.0064286	2.10	0.036	.0008804	.02608
whppain	.0232758	.00891	2.61	0.009	.0058126	.0407391
radchw1	.0144111	.006637	2.17	0.030	.0014028	.0274195
whpel	.0205992	.0062919	3.27	0.001	.0082674	.0329311
_cons	-7.543832	1.147753	-6.57	0.000	-9.793387	-5.294278

Logistic model for HP2pbfhm

Classified	True		Total
	D	~D	
+	20	10	30
-	27	304	331
Total	47	314	361

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2pbfhm != 0

Sensitivity	$\Pr(+ D)$	42.55%
Specificity	$\Pr(- \sim D)$	96.82%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	91.84%
False + rate for true ~D	$\Pr(+ \sim D)$	3.18%
False - rate for true D	$\Pr(- D)$	57.45%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	8.16%
Correctly classified		89.75%

Logistic model for HP2pbfhm, goodness-of-fit test

number of observations =	361
number of covariate patterns =	353
Pearson chi2(347) =	414.17
Prob > chi2 =	0.0076

Measures of Fit for **logit** of HP2pbfhm


```

*****
> *
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2sxlife for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012 06:20:04
> *
*****
> *
*****
> *
*****

```


HP2sxlife	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0652945	.0153243	4.26	0.000	.0352595	.0953295
whpel	.0109418	.0060737	1.80	0.072	-.0009625	.0228462
radfmwl	.0162283	.0051519	3.15	0.002	.0061308	.0263257
whppain	.0348445	.0102768	3.39	0.001	.0147023	.0549867
suprtwl	-.0134728	.006621	-2.03	0.042	-.0264497	-.0004959
icdxcnt	.2922161	.1033651	2.83	0.005	.0896242	.494808
_cons	-7.208937	.9075371	-7.94	0.000	-8.987677	-5.430197

Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	30	15	45
-	39	256	295
Total	69	271	340

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2sxlife != 0

Sensitivity	$\Pr(+ D)$	43.48%
Specificity	$\Pr(- \sim D)$	94.46%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	86.78%
False + rate for true ~D	$\Pr(+ \sim D)$	5.54%
False - rate for true D	$\Pr(- D)$	56.52%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	13.22%
Correctly classified		84.12%

Logistic model for HP2sxlife, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    326
Pearson chi2(319) =      264.88
Prob > chi2 =      0.9878

```

Measures of Fit for **logit** of **HP2sxlife**

```
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2sxlife for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012    06:20:22
> *
*****
> *
```


HP2sxlife	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0811	.014608	5.55	0.000	.0524687	.1097312
whpel	.0159603	.004917	3.25	0.001	.0063231	.0255975
whppain	.0188975	.0074141	2.55	0.011	.0043662	.0334289
bf20	.012052	.0060759	1.98	0.047	.0001434	.0239605
_cons	-7.375375	.9398372	-7.85	0.000	-9.217422	-5.533328

Logistic model for HP2sxlife

Classified	True		Total
	D	~D	
+	52	20	72
-	42	247	289
Total	94	267	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2sxlife != 0

Sensitivity	$\Pr(+ D)$	55.32%
Specificity	$\Pr(- \sim D)$	92.51%
Positive predictive value	$\Pr(D +)$	72.22%
Negative predictive value	$\Pr(\sim D -)$	85.47%
False + rate for true ~D	$\Pr(+ \sim D)$	7.49%
False - rate for true D	$\Pr(- D)$	44.68%
False + rate for classified +	$\Pr(\sim D +)$	27.78%
False - rate for classified -	$\Pr(D -)$	14.53%
Correctly classified		82.83%

Logistic model for HP2sxlife, goodness-of-fit test

```

      number of observations =      361
number of covariate patterns =      332
      Pearson chi2(327) =      363.89
          Prob > chi2 =      0.0782

```

Measures of Fit for **logit** of **HP2sxlife**

```
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2inthob for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012    06:20:40
> *
*****
> *
```


HP2inthob	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
whppain	.0369298	.0116633	3.17	0.002	.0140702	.0597895
radhlw1	.0279188	.0064639	4.32	0.000	.0152498	.0405878
whpel	.019931	.0076767	2.60	0.009	.004885	.034977
deawl	-1.667302	.8004389	-2.08	0.037	-3.236134	-.0984709
icdxcnt	.2498247	.1207088	2.07	0.038	.0132398	.4864096
_cons	-5.613683	.7338306	-7.65	0.000	-7.051964	-4.175401

Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	12	6	18
-	26	296	322
Total	38	302	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	31.58%
Specificity	$\Pr(- \sim D)$	98.01%
Positive predictive value	$\Pr(D +)$	66.67%
Negative predictive value	$\Pr(\sim D -)$	91.93%
False + rate for true ~D	$\Pr(+ \sim D)$	1.99%
False - rate for true D	$\Pr(- D)$	68.42%
False + rate for classified +	$\Pr(\sim D +)$	33.33%
False - rate for classified -	$\Pr(D -)$	8.07%
Correctly classified		90.59%

Logistic model for HP2inthob, goodness-of-fit test

number of observations =	340
number of covariate patterns =	230
Pearson chi2(224) =	168.13
Prob > chi2 =	0.9979

Measures of Fit for **logit** of HP2inthob

```

*****
> *
*****
> *
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> *
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> *
*****
Trimmed model for HP2inthob for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012 06:20:56
> *
*****
> *
*****
> *
*****

```


HP2inthob	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0696936	.0159107	4.38	0.000	.0385093	.100878
radhlw1	.0210747	.0050179	4.20	0.000	.0112399	.0309095
whpel	.0209588	.0046339	4.52	0.000	.0118765	.030041
_cons	-7.529659	.9609077	-7.84	0.000	-9.413003	-5.646314

Logistic model for HP2inthob

Classified	True		Total
	D	~D	
+	33	9	42
-	33	286	319
Total	66	295	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2inthob != 0

Sensitivity	$\Pr(+ D)$	50.00%
Specificity	$\Pr(- \sim D)$	96.95%
Positive predictive value	$\Pr(D +)$	78.57%
Negative predictive value	$\Pr(\sim D -)$	89.66%
False + rate for true ~D	$\Pr(+ \sim D)$	3.05%
False - rate for true D	$\Pr(- D)$	50.00%
False + rate for classified +	$\Pr(\sim D +)$	21.43%
False - rate for classified -	$\Pr(D -)$	10.34%
Correctly classified		88.37%

Logistic model for HP2inthob, goodness-of-fit test

number of observations =	361
number of covariate patterns =	311
Pearson chi2(307) =	333.54
Prob > chi2 =	0.1427

Measures of Fit for **logit** of HP2inthob

```
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2vacatn for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012    06:21:16
> *
*****
> *
```


_cons	-7.615507	1.211011	-6.29	0.000	-9.989045	-5.241968
--------------	------------------	-----------------	--------------	--------------	------------------	------------------

Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	17	4	21
-	24	295	319
Total	41	299	340

Classified + if predicted $\Pr(D) \geq .5$
True D defined as HP2vacatn != 0

Sensitivity	$\Pr(+ D)$	41.46%
Specificity	$\Pr(- \sim D)$	98.66%
Positive predictive value	$\Pr(D +)$	80.95%
Negative predictive value	$\Pr(\sim D -)$	92.48%
False + rate for true ~D	$\Pr(+ \sim D)$	1.34%
False - rate for true D	$\Pr(- D)$	58.54%
False + rate for classified +	$\Pr(\sim D +)$	19.05%
False - rate for classified -	$\Pr(D -)$	7.52%
Correctly classified		91.76%

Logistic model for HP2vacatn, goodness-of-fit test

```

number of observations =      340
number of covariate patterns =    336
    Pearson chi2(326) =    273.22
        Prob > chi2 =      0.9848

```

Measures of Fit for **logit** of **HP2vacatn**

```
*****
> *
*****
> *
*****
> *
*****
Trimmed model for HP2vacatn for wave= 1
> *
*****
> *
*****
> *
*****
1 Jul 2012    06:21:28
> *
*****
> *
```


	begin with full model
p = 0.9435 >= 0.1000	removing shjobw1
p = 0.9572 >= 0.1000	removing shhlw1
p = 0.9359 >= 0.1000	removing icdxcnt
p = 0.9258 >= 0.1000	removing avgcumdosew1
p = 0.8616 >= 0.1000	removing deaw1
p = 0.7940 >= 0.1000	removing illw1
p = 0.7231 >= 0.1000	removing shrelaw1
p = 0.3899 >= 0.1000	removing radchwl
p = 0.3413 >= 0.1000	removing radfmw1
p = 0.2692 >= 0.1000	removing bf20
p = 0.1152 >= 0.1000	removing suprtw1
p = 0.1651 >= 0.1000	removing bf1

Log likelihood = -118.81948



HP2vacatn	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0615732	.0163503	3.77	0.000	.0295271	.0936192
radhlw1	.0228501	.0051886	4.40	0.000	.0126806	.0330197
whppain	.0193205	.0082832	2.33	0.020	.0030858	.0355553
whpel	.0112173	.0054324	2.06	0.039	.0005699	.0218647
_cons	-7.351247	.9723341	-7.56	0.000	-9.256987	-5.445508

Logistic model for HP2vacatn

Classified	True		Total
	D	~D	
+	28	11	39
-	35	287	322
Total	63	298	361

Classified + if predicted $\Pr(D) \geq .5$

True D defined as HP2vacatn != 0

Sensitivity	$\Pr(+ D)$	44.44%
Specificity	$\Pr(- \sim D)$	96.31%
Positive predictive value	$\Pr(D +)$	71.79%
Negative predictive value	$\Pr(\sim D -)$	89.13%
False + rate for true ~D	$\Pr(+ \sim D)$	3.69%
False - rate for true D	$\Pr(- D)$	55.56%
False + rate for classified +	$\Pr(\sim D +)$	28.21%
False - rate for classified -	$\Pr(D -)$	10.87%
Correctly classified		87.26%

Logistic model for HP2vacatn, goodness-of-fit test

```

number of observations =      361
number of covariate patterns =    337
    Pearson chi2(332) =    363.63
        Prob > chi2 =      0.1119

```

Measures of Fit for **logit** of **HP2vacatn**

```

163 .
164 .
165 . *----- Trimmed models -----
    > ----
166 . * We use simultaneous trimming for models that exhibited a dose -reponse
    > effect
167 . * They are female homcare and social life models
168 .
169 . cap gen hp2prbsoc = HP2probsoc

170 . title "Trimmed Home care dose relationship for women in wave one"

```



```

171 .
172 . logit hp2hmcare age    ///
    >         illw1 medcow1  ///
    >         radtlw1  ///
    >         avgcumdosew1  ///
    >         whpel whppain  ///
    >         bf1 if gender==2, nolog

```

Logistic regression	Number of obs	=	363
	LR chi2(8)	=	163.60
	Prob > chi2	=	0.0000
Log likelihood = -151.92971	Pseudo R2	=	0.3500

hp2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0737808	.0140738	5.24	0.000	.0461966	.1013651
illw1	.673119	.3021353	2.23	0.026	.0809448	1.265293
medcow1	.0909715	.0393274	2.31	0.021	.0138912	.1680518
radtlw1	.0111965	.0042122	2.66	0.008	.0029407	.0194524
avgcumdosew1	-1.03656	.3644478	-2.84	0.004	-1.750865	-.3222558
whpel	.0162255	.004942	3.28	0.001	.0065393	.0259116
whppain	.0376997	.0081058	4.65	0.000	.0218126	.0535869
bf1	-.0169775	.0067166	-2.53	0.011	-.0301419	-.0038131
_cons	-5.817551	.7805859	-7.45	0.000	-7.347471	-4.287631

```

173 .
174 . scalar prbsocnumMA sig = 8

175 . scalar medsigFw1=1

176 .
177 .
178 .
179 .
180 . // Moderators for female home care in wave 1

```

```

181 .
182 .
183 .
184 . foreach var in age illw1 medcow1 radtlw1 whpel whppain bf1 {
      2. gen `var'Xd1 = `var'*avgcumdosew1
      3. }
      (1 missing value generated)
      (1 missing value generated)

185 .
186 . logit hp2hmcare age      ///
      >         illw1 medcow1  ///
      >         radtlw1      ///
      >         avgcumdosew1  ///
      >         whpel whppain  ///
      >         bf1 ageXd1-bf1Xd1 if gender==2, nolog

```

```

Logistic regression               Number of obs   =       363
                                   LR chi2(15)      =       176.78
                                   Prob > chi2       =       0.0000
Log likelihood = -145.33747        Pseudo R2    =       0.3782

```

hp2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0938562	.0243056	3.86	0.000	.0462181	.1414942
illw1	1.431197	.5530394	2.59	0.010	.3472596	2.515134
medcow1	-.0236874	.0781116	-0.30	0.762	-.1767832	.1294085
radtlw1	.0117074	.005978	1.96	0.050	-9.22e-06	.023424
avgcumdosew1	2.565947	4.682064	0.55	0.584	-6.610729	11.74262
whpel	.014443	.0083436	1.73	0.083	-.0019102	.0307963
whppain	.0477532	.0108825	4.39	0.000	.026424	.0690825
bf1	-.0314154	.0142983	-2.20	0.028	-.0594395	-.0033913
ageXd1	-.0922441	.0802468	-1.15	0.250	-.249525	.0650369
illw1Xd1	-2.738378	1.838287	-1.49	0.136	-6.341355	.8645994
medcow1Xd1	.4207286	.2604068	1.62	0.106	-.0896593	.9311164
radtlw1Xd1	-.0032717	.0139165	-0.24	0.814	-.0305476	.0240041
whpelXd1	.0102044	.0234197	0.44	0.663	-.0356974	.0561061
whppainXd1	-.0278112	.0233101	-1.19	0.233	-.0734981	.0178757
bf1Xd1	.0422653	.0421814	1.00	0.316	-.0404087	.1249392
_cons	-6.452066	1.357862	-4.75	0.000	-9.113427	-3.790706

Note: 1 failure and 1 success completely determined.

```

187 .
188 . * there are no significant moderators for this logistic regression above
189 .
190 . logit hp2hmcare age    ///
    >         illw1 medcow1  ///
    >         radtlw1  ///
    >         avgcumdosew1 ///
    >         whpel whppain  ///
    >         bf1 illw1Xd1-bf1Xd1 if gender==2, nolog

```

```

Logistic regression               Number of obs   =       363
                                LR chi2(14)      =       175.47
                                Prob > chi2       =       0.0000
Log likelihood = -145.99205       Pseudo R2    =       0.3754

```

hp2hmcare	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0725065	.0147382	4.92	0.000	.04362	.1013929
illw1	1.446639	.5460396	2.65	0.008	.3764213	2.516857
medcow1	-.0246873	.0767048	-0.32	0.748	-.175026	.1256514
radtlw1	.0119389	.0059247	2.02	0.044	.0003266	.0235511
avgcumdosew1	-1.955522	2.612535	-0.75	0.454	-7.075996	3.164952
whpel	.0149738	.0082874	1.81	0.071	-.0012692	.0312167
whppain	.0430492	.0105426	4.08	0.000	.022386	.0637123
bf1	-.0266245	.0131941	-2.02	0.044	-.0524846	-.0007645
illw1Xd1	-2.850958	1.86127	-1.53	0.126	-6.498981	.7970651
medcow1Xd1	.4154341	.2584046	1.61	0.108	-.0910296	.9218979
radtlw1Xd1	-.0029316	.014288	-0.21	0.837	-.0309356	.0250723
whpelXd1	.0079383	.0237936	0.33	0.739	-.0386964	.0545729
whppainXd1	-.0128189	.0247803	-0.52	0.605	-.0613873	.0357495
bf1Xd1	.0245603	.0380102	0.65	0.518	-.0499383	.0990589
_cons	-5.452065	1.000834	-5.45	0.000	-7.413664	-3.490466

Note: 0 failures and 1 success completely determined.

```

191 .

```



```

199 . logit hp2prbsoc age    ///
    >         medcow1    ///
    >         radfmw1    ///
    >         avgcumdosew1 ///
    >         whpel whppain ///
    >         PTSDw1    ///
    >         if gender==2, nolog

```

```

Logistic regression               Number of obs   =       363
                                LR chi2(7)       =      162.68
                                Prob > chi2       =       0.0000
Log likelihood = -102.23234       Pseudo R2    =       0.4431

```

hp2prbsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0841671	.0185985	4.53	0.000	.0477148	.1206194
medcow1	.1037151	.0455399	2.28	0.023	.0144586	.1929715
radfmw1	.0170613	.005462	3.12	0.002	.0063559	.0277667
avgcumdosew1	.908049	.3390227	2.68	0.007	.2435767	1.572521
whpel	.0146083	.0059656	2.45	0.014	.002916	.0263006
whppain	.0374859	.0092242	4.06	0.000	.0194069	.0555649
PTSDw1	-.0172753	.0063709	-2.71	0.007	-.0297621	-.0047886
_cons	-8.997383	1.142711	-7.87	0.000	-11.23706	-6.757711

```

200 .
201 . foreach var in medcow1 radfmw1 whpel whppain PTSDw1 {
    2.   cap gen `var'Xd1 = `var'*avgcumdosew1
    3.   }

```

```

202 .
203 . logit hp2prbsoc age    ///
    >         medcow1    ///
    >         radfmw1    ///
    >         avgcumdosew1 ///
    >         whpel whppain ///
    >         PTSDw1    ///
    >         ageXd1 -PTSDw1Xd1 ///
    >         if gender==2, nolog

```

```

Logistic regression               Number of obs   =       363
                                LR chi2(16)      =      174.97
                                Prob > chi2       =       0.0000
Log likelihood = -96.08734       Pseudo R2    =       0.4766

```


hp2prbsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0962173	.0331953	2.90	0.004	.0311556	.1612789
medcow1	-.0493166	.0911684	-0.54	0.589	-.2280035	.1293702
radfmw1	.0097557	.007835	1.25	0.213	-.0056007	.0251121
avgcumdosew1	1.416399	6.697739	0.21	0.833	-11.71093	14.54373
whpel	.0091003	.0101715	0.89	0.371	-.0108354	.0290359
whppain	.026248	.0151345	1.73	0.083	-.003415	.055911
PTSDw1	-.0131613	.0092295	-1.43	0.154	-.0312508	.0049282
ageXd1	-.0685531	.1093182	-0.63	0.531	-.2828129	.1457066
illw1Xd1	-1.231817	1.107379	-1.11	0.266	-3.402239	.9386064
medcow1Xd1	.6427061	.3090544	2.08	0.038	.0369707	1.248442
radtlw1Xd1	-.0197839	.0156583	-1.26	0.206	-.0504736	.0109058
whpelXd1	.020316	.0272917	0.74	0.457	-.0331748	.0738068
whppainXd1	.0488321	.0473175	1.03	0.302	-.0439084	.1415727
bf1Xd1	.033552	.0243734	1.38	0.169	-.014219	.0813231
radfmw1Xd1	.0214179	.0192623	1.11	0.266	-.0163356	.0591714
PTSDw1Xd1	-.017654	.0192942	-0.91	0.360	-.0554699	.0201619
_cons	-8.728893	2.053325	-4.25	0.000	-12.75333	-4.70445

Note: 0 failures and 1 success completely determined.

```

204 .
205 . * there is only one moderator and that is bf1Xd1 but this is not robust
206 . * enough to remain significant when the others are removed so we discard it
207 .
208 . logit hp2prbsoc age    ///
>         medcow1    ///
>         radfmw1    ///
>         avgcumdosew1 ///
>         whpel whppain ///
>         PTSDw1    ///
>         bf1Xd1    ///
>         if gender==2, nolog

```

Logistic regression	Number of obs	=	363
	LR chi2(8)	=	164.92
	Prob > chi2	=	0.0000
Log likelihood = -101.1114	Pseudo R2	=	0.4492

hp2prbsoc	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
age	.0835944	.0188465	4.44	0.000	.0466559	.1205329
medcow1	.1020847	.0460658	2.22	0.027	.0117974	.1923721
radfmw1	.0163655	.0054536	3.00	0.003	.0056766	.0270545
avgcumdosew1	.0406541	.5634741	0.07	0.942	-1.063735	1.145043
whpel	.0147761	.0060068	2.46	0.014	.003003	.0265492
whppain	.0378791	.0092891	4.08	0.000	.0196728	.0560854
PTSDw1	-.0166667	.0064651	-2.58	0.010	-.0293381	-.0039953
bflXd1	.019981	.0128067	1.56	0.119	-.0051197	.0450816
_cons	-8.947676	1.148842	-7.79	0.000	-11.19936	-6.695988

```

209 .
210 .
211 . scalar prbsocnumMA sig = 8

212 . scalar medsigFw1=1

213 .
214 .

```