Advanced Methods in Health Services Research: Analysis - 309.716
Tuesday and Thursday 9:00-10:20
Instructors: Darrell J. Gaskin, Ph.D.
Roland J. Thorpe, Ph.D.
250 Hampton House

Computer Exercise #4: Estimating the Effect of Sex and Race/Ethnicity on having an office based physician visit using LPM, Logistic, and Probit Regression Models

Due: September 27, 2016

Answer Guide/Suggested Answers

1. Consider the following model

Hospital Readmissions = B_0 + B_1*Pct_Medicare_Patients + B_2 Teach_Hospital + B_3 Pct_Medicare_Patient*Teach_Hospital

a. What is the marginal effect of percentage of Medicare patients on the number of readmissions?

The marginal effect can be taken by computing the partial derivative of Readmissions with respect to Pct_Medicare_Patient:

$$\frac{\partial Readmissions}{\partial Pct\_Medicare\_Patient} = \beta_1 + \beta_3 {*} Teach\_Hospital$$

We see here that the marginal effect of the percentage of Medicare patients is β_1 if the hospital is not a teaching hospital and β_1 + β_3 if the hospital is a teaching hospital.

b. What is the marginal effect of being a teaching hospitals on the number of readmissions?

The marginal effect can be taken by computing the partial derivative of Readmissions with respect to Teach_Hospital:

$$\frac{\partial Readmissions}{\partial Teach\_Hospital} = \beta_2 + \beta_3 {*} Pct\_Medicare\_Patient$$

We see here that the marginal effect of the percentage of Medicare patients is β_2 + β_3*(percentage of Medicare patients).

c. What does B3 tell us?

β_3 gives us the interaction effect between Pct_Medicare_Patient or the percentage of Medicare patients and Teach_Hospital or being a teaching hospital. That is, we can interpret β_3 as the additional effect of changes in the percentage of Medicare patients on readmissions if the hospital is a teaching hospital. Alternatively, we can also interpret β_3 as the additional effect of being a teaching hospital on readmissions at different levels of the percentage of Medicare patients.

Use the analysis file you built in computer exercises 1-3. For this analysis, limit the sample to adults, i.e., persons over the age of 17. Note you will have to create a variable that identifies the adult sample. Use the subpop command with the svy procedures to estimate the models correctly in Stata.

Using the office based physician variable *obtotv08* create a dummy variable indicating if a person had an office based physician visit during the year.

Create sex-insurance status interaction variables

Create sex-insurance categorical variables (male private insured, female private insured, male Medicare insured, female Medicare insured, male Medicaid-other public insured, female Medicaid-other public insured, male uninsured, female uninsured)

2. Estimate the following models using linear probability model (LPM) and logistic regression techniques.

Model 1: Any obvisit = f(age, race/ethnicity, sex, poverty status, education, insurance status, **sex-insurance status interaction,** health status, MSA status and region)

a. Create table 1 that displays the model 1 coefficients for LPM regressions the sex and insurance variables and interpret the coefficients for LPM.

TABLE 1. LPM Coefficients, Model 1

	(1) LPM
Public Insurance	0.00361
	(0.0250)
Uninsured	-0.241***
	(0.0176)
Medicare	0.0699***
	(0.0147)

Female	0.147***
	(0.00728)
Public Insurance-Female	0.0438
	(0.0241)
Uninsured-Female	-0.0121
	(0.0211)
Medicare-Female	-0.0889***
	(0.0152)
N	31258
R^2	0.206

Standard errors in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

The coefficients on Female represents the main effect of gender. The coefficient implies that being female increases the predicted probability of having any office visit by 0.147 compared to being male, holding all other things constant. We also note that it is the effect of being female and having private insurance.

The coefficients on public insurance, uninsured, and Medicare, represent the effect of having these types of insurance on the predicted probability of having any office relative to having private insurance. We note that for men, these are the only effects of insurance status on their predicted probabilities. From above, the regression results imply that for men, being uninsured decreases the probability of having any physician office visit by -0.241 and being on Medicare increases the probability by 0.0699 compared to having private insurance, holding all other things constant. Both are statistically significant. The effect of Medicaid/public insurance was not statistically significant. To examine the effect of insurance status conditional on being female, we have to account for the gender/interaction term.

The interaction terms represent the modification of the effect of insurance status due to gender. In particular, in our case it represents the modification of the effect of insurance status on the predicted probability of having an office visit conditional on being female. The coefficient on Medicare*Female, for example, implies that females on Medicare decreases have 0.0889 lower probability of an office visit compared to men on Medicare. Thus for females, being on Medicare decreases the probability of an office visit by 0.0699 (coefficient on Medicare) – 0.0889 (coefficient on Medicare*Female) = 0.019 compared to having private insurance. Additionally, we note that women on Medicare have 0.147 + 0.0699 (the coefficient on Medicare) - 0.0889 (the coefficient on Medicare*Female) = 0.128 higher probability of having any office visit compared to privately insured men. The other interaction variables can be interpreted similarly but are not statistically significant.

b. Create table 2 that displays the model 1 coefficients and odds ratios for the logistic regression model.

TABLE 2. Logit Coefficients and Odds Ratios, Model 1

	(1) Coefficients	(2) OR
obtotv08n		
Public Insurance	0.119	1.126
	(0.121)	(0.136)
Uninsured	-0.966***	0.381***
	(0.0860)	(0.0327)
Medicare	0.238	1.269
	(0.138)	(0.175)
Female	0.951***	2.589***
	(0.0497)	(0.129)
Public Insurance-Female	0.0800	1.083
	(0.127)	(0.137)
Uninsured-Female	-0.367***	0.693***
	(0.106)	(0.0736)
Medicare-Female	-0.270	0.763
	(0.168)	(0.128)
N	31258	31258

Standard errors in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

c. Discuss the problems associated with interpreting the coefficients on the sex and insurance status interaction variables.

The main problem is that the coefficients on the sex/insurance status interaction variables cannot be interpreted by themselves. As we saw in (a), we have to add coefficients to deduce the effects of belonging to different categories relative to the base categories. Thus it would be more difficult for consumers of the analysis to interpret the results of the regression. In addition, it would be more difficult to ascertain significant differences between groups when we add the pertinent coefficients as some coefficients are significant while others are not. The problem of interpretation is even more acute for logit models. Adding changes in log odds or odds ratios does not make for a convenient interpretation of the results.

Model 2: Any obvisit = f(age, race/ethnicity, **sex-insurance status categories,** poverty status, education, health status, MSA status and region) *Use males with private insurance as the reference group.*

d. Create table 3 that displays the model 2 coefficients for LPM regressions for the sex and insurance status variables.

TABLE 3. LPM Coefficients, Model 2

	(1) LPM
Private Insurance - Women	0.147^{***}
	(0.00728)
Public Insurance - Men	0.00361
	(0.0250)
Public Insurance - Women	0.195^{***}
	(0.0156)
Uninsured - Men	-0.241^{***}
	(0.0176)
Uninsured - Women	-0.105^{***}
	(0.0181)
Medicare - Men	0.0699^{***}
	(0.0147)
Medicare - Women	0.128^{***}
	(0.0118)
N	31258
R^2	0.206

Standard errors in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

e. Interpret the coefficients for LPM.

Here, the interpretations of the coefficients are more straightforward. We recall that we set the base category as men with private insurance. Thus the coefficients on the different sex/insurance status categories represent the change or the difference in the predicted probabilities of having an office visit of the different categories compared to males with private insurance. As an example, women on private insurance have 0.147 higher probability of having an office visit compared to men on private insurance. Similarly, uninsured women have a 0.105 lower probability of an office visit compared to men on private insurance.

The other coefficients can be interpreted accordingly. All coefficients except for that on men with public insurance are statistically significant.

f. Create table 4 that displays the model 2 coefficients for the logistic regression model for the sex and insurance status variables.

TABLE 4. Logit Coefficients and Odds Ratios, Model 2

	(1) Coefficients	(2) OR
obtotv08n		
Private Insurance - Women	0.951^{***}	2.589^{***}
	(0.0497)	(0.129)
Public Insurance - Men	0.119	1.126
	(0.121)	(0.136)
Public Insurance - Women	1.150^{***}	3.158^{***}
	(0.102)	(0.323)
Uninsured - Men	-0.966^{***}	0.381^{***}
	(0.0860)	(0.0327)
Uninsured - Women	-0.382^{***}	0.683^{***}
	(0.0843)	(0.0576)
Medicare - Men	0.238	1.269
	(0.138)	(0.175)
Medicare - Women	0.920^{***}	2.508^{***}
	(0.160)	(0.400)
N	31258	31258

Standard errors in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

g. Interpret the coefficients on the sex and insurance status variables. Do the coefficients from Model 2 present the same problems as those from Model 1? Why or why not?

We interpret the odds ratios as these are more convenient to interpret. From Table 4, we see that the odds of having any office visit for women on private insurance is 2.589 times that of the odds for men on private insurance, holding all other variables constant. We also note that the odds of having any office visit for women on public insurance is 3.158 times that of the odds for men on private insurance. The other coefficients can be interpreted similarly.

The problems we saw with model 1 are no longer present here since we can directly interpret the coefficients on the different categories as opposed to adding the different coefficients for the different variables we used in model 1.

```
--------------------------------------------------------------------------------------
---------------------
      name:  <unnamed>
       log:       /Users/jojo/Documents/JHU/TA   Folder/Advanced   HSR   Methods   -
Analysis/Answers/Assignment4_2016.lo
> g
  log type:  text
 opened on:   4 Oct 2016, 15:47:42

.    use    "/Users/jojo/Documents/JHU/TA    Folder/Advanced    HSR    Methods    -
Analysis/meps08.dta", replace

. cd "/Users/jojo/Documents/JHU/TA Folder/Advanced HSR Methods - Analysis/Answers"
/Users/jojo/Documents/JHU/TA Folder/Advanced HSR Methods - Analysis/Answers

. svyset varpsu [pweight = perwt08f], strata(varstr)

      pweight: perwt08f
          VCE: linearized
  Single unit: missing
     Strata 1: varstr
         SU 1: varpsu
        FPC 1: <zero>

.
. /*Variable Creation and Cleaning*/
.
. * Trimming the data
. summ totexp08

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    totexp08 |     33066    3142.069    9786.619          0     553493

. summ totexp08, detail

                  total health care exp 08
-------------------------------------------------------------
      Percentiles      Smallest
 1%            0              0
 5%            0              0
10%            0              0       Obs               33066
25%           67              0       Sum of Wgt.       33066

50%        528.5                      Mean           3142.069
                        Largest       Std. Dev.      9786.619
75%         2425         238659
90%         7453         264510       Variance       9.58e+07
95%        13582         373799       Skewness       14.40863
99%        40763         553493       Kurtosis        469.447

.
. gen healthexp = totexp08

. replace healthexp = . if totexp08 < 0 /*replaces negative values with missing*/
(0 real changes made)

.  replace  healthexp  =  .  if  totexp08  >  100000  /*replaces  values  >  $100,000  with
missing*/
(42 real changes made, 42 to missing)

. summ healthexp
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   healthexp |     33024    2937.216    7412.106          0      99988

. summ healthexp, detail

                          healthexp
-------------------------------------------------------------
      Percentiles      Smallest
 1%            0              0
 5%            0              0
10%            0              0       Obs               33024
25%           66              0       Sum of Wgt.       33024

50%          526                      Mean           2937.216
                        Largest       Std. Dev.      7412.106
75%       2413.5          98210
90%         7353          99251       Variance       5.49e+07
95%        13387          99264       Skewness       5.819768
99%        38550          99988       Kurtosis       48.38959

.
. gen income = ttlp08x

. replace income = . if ttlp08x < 0 /*sets negative values to missing*/
(25 real changes made, 25 to missing)

. replace income = . if ttlp08x > 170000 /*sets very large values to missing*/
(325 real changes made, 325 to missing)

. /* Note: If you did not exclude those with incomes > 170000, it's fine*/
. summarize income

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
      income |     32716    18715.83    24109.08          0     169564

. summarize income, detail

                           income
-------------------------------------------------------------
      Percentiles      Smallest
 1%            0              0
 5%            0              0
10%            0              0       Obs               32716
25%            0              0       Sum of Wgt.       32716

50%        10000                      Mean           18715.83
                        Largest       Std. Dev.      24109.08
75%        28838         164895
90%        52000         164895       Variance       5.81e+08
95%        70000         165391       Skewness       1.717878
99%       103084         169564       Kurtosis       6.147364

.
.
. * Generate Categories
. gen age18over = 0

. replace age18over = 1 if age08x >= 18
(23183 real changes made)

.
```

```
. gen agecat = 1 if age08x >=0 & age08x <=17
(23434 missing values generated)

. replace agecat = 2 if age08x >=18 & age08x <=24
(3372 real changes made)

. replace agecat = 3 if age08x >=25 & age08x <=44
(8813 real changes made)

. replace agecat = 4 if age08x >=45 & age08x <=64
(7614 real changes made)

. replace agecat = 5 if age08x >=65 & age08x <=74
(1867 real changes made)

. replace agecat = 6 if age08x >=75
(1517 real changes made)

.
. label define agecats 1  "0-18" 2 "18-24" 3  "25-44" 4 "45-64" 5 "65-74" 6 "75+"

. label values agecat agecats /*set label name sexn to the variable sex*/

. tabulate agecat

     agecat |      Freq.     Percent        Cum.
------------+-----------------------------------
       0-18 |      9,632       29.35       29.35
      18-24 |      3,372       10.28       39.63
      25-44 |      8,813       26.86       66.48
      45-64 |      7,614       23.20       89.69
      65-74 |      1,867        5.69       95.38
        75+ |      1,517        4.62      100.00
------------+-----------------------------------
      Total |     32,815      100.00

.
. gen race = 1 if racex == 1 & racethnx != 1
(18775 missing values generated)

. replace race = 2 if racex == 2 & racethnx != 1
(6476 real changes made)

. replace race = 3 if racethnx == 1
(9392 real changes made)

. replace race = 4 if racex == 4 & racethnx != 1
(1997 real changes made)

. replace race = 5 if (racex == 3 | racex == 5 | racex == 6) & racethnx != 1
(910 real changes made)

.
. label define racexn2 1 "White" 2 "Black" 3 "Hispanic" 4 "Asian" 5 "Other"

. label values race racexn2

.
. label define sexn 1 "male" 2 "female"

. label values sex sexn

. tabulate sex
```

```
        sex |      Freq.     Percent        Cum.
------------+-----------------------------------
       male |     15,885       48.04       48.04
     female |     17,181       51.96      100.00
------------+-----------------------------------
      Total |     33,066      100.00

.
. gen female = 0 if sex == 1
(17181 missing values generated)

. replace female = 1 if sex == 2
(17181 real changes made)

.
. gen racesexcat = 1 if race == 1 & female == 0
(26095 missing values generated)

. replace racesexcat = 2 if race == 1 & female == 1
(7320 real changes made)

. replace racesexcat = 3 if race == 2 & female == 0
(2894 real changes made)

. replace racesexcat = 4 if race == 2 & female == 1
(3582 real changes made)

. replace racesexcat = 5 if race == 3 & female == 0
(4612 real changes made)

. replace racesexcat = 6 if race == 3 & female == 1
(4780 real changes made)

. replace racesexcat = 7 if race == 4 & female == 0
(965 real changes made)

. replace racesexcat = 8 if race == 4 & female == 1
(1032 real changes made)

. replace racesexcat = 9 if race == 5 & female == 0
(443 real changes made)

. replace racesexcat = 10 if race == 5 & female == 1
(467 real changes made)

.
.
. gen whitemale = 0 /*okay since no missings for race and sex*/

. replace whitemale = 1 if race == 1 & female == 0
(6971 real changes made)

. gen whitefemale = 0

. replace whitefemale = 1 if race == 1 & female == 1
(7320 real changes made)

. gen blackmale = 0

. replace blackmale = 1 if race == 2 & female == 0
(2894 real changes made)
```

```
. gen blackfemale = 0

. replace blackfemale = 1 if race == 2 & female == 1
(3582 real changes made)

. gen hispanicmale = 0

. replace hispanicmale = 1 if race == 3 & female == 0
(4612 real changes made)

. gen hispanicfemale = 0

. replace hispanicfemale = 1 if race == 3 & female == 1
(4780 real changes made)

. gen asianmale = 0

. replace asianmale = 1 if race == 4 & female == 0
(965 real changes made)

. gen asianfemale = 0

. replace asianfemale = 1 if race ==4 & female == 1
(1032 real changes made)

. gen othermale = 0

. replace othermale = 1 if race == 5 & female == 0
(443 real changes made)

. gen otherfemale = 0

. replace otherfemale = 1 if race == 5 & female == 1
(467 real changes made)

.
. label define racesex 1 "White Male" 2 "White Female" 3 "Black Male" 4 "Black Female"
5 "Hispanic Male" 6 "
> Hispanic Female" 7 "Asian Male" 8 "Asian Female" 9 "Other Male" 10 "Other Female"

. label values racesexcat racesex

.
.
. gen healthstatus = 1 if rthlth42 == 1
(23215 missing values generated)

. replace healthstatus = 2 if rthlth42 == 2
(10188 real changes made)

. replace healthstatus = 3 if rthlth42 == 3
(8628 real changes made)

. replace healthstatus = 4 if rthlth42 == 4
(2777 real changes made)

. replace healthstatus = 5 if rthlth42 == 5
(815 real changes made)

.
. label define health 1 "Excellent" 2 "Very Good" 3 "Good" 4 "Fair" 5 "Poor"

. label values healthstatus health
```

```
.
.
.
. gen education = 1 if educyr >=0 & educyr <=8
(25465 missing values generated)

. replace education = 2 if educyr >=9 & (educyr <=12 & educyr >=0) & hideg == 1
(3732 real changes made)

. replace education = 3 if hideg == 2 | hideg == 3
(11173 real changes made)

. replace education = 4 if educyr >=13 & educyr <=17 & hideg == 3
(3629 real changes made)

. replace education = 5 if hideg == 4
(3245 real changes made)

. replace education = 6 if hideg == 5 | hideg ==6
(1590 real changes made)

.
. label define educ 1 "Grade 8 and below" 2 "Some High School" 3 "HighSchool" 4 "Some
College" 5 "College" 6
>  "Advanced Degree"

. label values education educ

.
.
.
. gen insurance = 1 if inscov08 == 1
(14773 missing values generated)

. replace insurance = 2 if inscov08 == 2 & mcrev08 == 2
(6642 real changes made)

. replace insurance = 3 if inscov08 == 3
(5662 real changes made)

. replace insurance = 4 if inscov08 == 2 & mcrev08 == 1
(2469 real changes made)

.
. label define insure 1 "Private Ins" 2 "Medicaid" 3 "Uninsured" 4 "Medicare"

. label values insurance insure

.
. gen inssexcat = 1 if insurance == 1 & female == 0
(24151 missing values generated)

. replace inssexcat = 2 if insurance == 1 & female == 1
(9378 real changes made)

. replace inssexcat = 3 if insurance == 2 & female == 0
(2953 real changes made)

. replace inssexcat = 4 if insurance == 2 & female == 1
(3689 real changes made)

. replace inssexcat = 5 if insurance == 3 & female == 0
```

```
(3008 real changes made)

. replace inssexcat = 6 if insurance == 3 & female == 1
(2654 real changes made)

. replace inssexcat = 7 if insurance == 4 & female == 0
(1009 real changes made)

. replace inssexcat = 8 if insurance == 4 & female == 1
(1460 real changes made)

.
. label define insex 1 "Priv Ins Men" 2 "Priv Ins Women" 3 "Medicaid Men" 4 "Medicaid
Women" 5 "Uninsured Me
> n" 6 "Uninsured Women" 7 "Medicare Men" 8 "Medicare Women"

. label values inssexcat insex

.
. gen region = 1 if region08 == 1
(28080 missing values generated)

. replace region = 2 if region08 == 2
(6499 real changes made)

. replace region = 3 if region08 == 3
(12424 real changes made)

. replace region = 4 if region08 == 4
(8906 real changes made)

.
. label define region2 1 "Northeast" 2 "Midwest" 3 "South" 4 "West"

. label values region region2

.
.
.
. gen fpl = 1 if povcat08 == 1
(26099 missing values generated)

. replace fpl = 2 if povcat08 == 2
(2171 real changes made)

. replace fpl = 3 if povcat08 == 3
(5667 real changes made)

. replace fpl = 4 if povcat08 == 4
(9595 real changes made)

. replace fpl = 5 if povcat08 == 5
(8666 real changes made)

.
. label define fplstat 1 "Poor" 2 "Near Poor" 3 "Low Income" 4 "Middle Income" 5 "High
Income"

. label values fpl fplstat

.
. gen notmsa = 1 if msa08 == 0
(28406 missing values generated)
```

```
. replace notmsa = 0 if msa08 == 1
(28155 real changes made)

.
. gen obtotv08n = 0 if obtotv08 == 0
(22054 missing values generated)

. replace obtotv08n = 1 if obtotv08 >=1
(22054 real changes made)

.
.
.
. /*Number 2*/
.
. *help fvvarlist
.
.
. ** Model 1
. * Linear Probability Model
. svy, subpop(age18over): reg obtotv08n ib1.insurance##sex i.healthstatus ib3.agecat
i.race ///
> ib5.fpl ib3.education notmsa ib1.region
(running regress on estimation sample)

Survey: Linear regression

Number of strata   =       165                  Number of obs      =      31258
Number of PSUs     =       370                  Population size    =  284307457
                                                Subpop. no. of obs =      20107
                                                Subpop. size       =  207295725
                                                Design df          =        205
                                                F(  32,    174)    =     173.38
                                                Prob > F           =     0.0000
                                                R-squared          =     0.2064

------------------------------------------------------------------------------------
                   |             Linearized
         obtotv08n |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------------+----------------------------------------------------------------
         insurance |
         Medicaid  |   .0036096   .0250178     0.14   0.885    -.0457156    .0529348
        Uninsured  |  -.2405578   .0176057   -13.66   0.000    -.2752693   -.2058464
         Medicare  |   .0698667   .0147064     4.75   0.000     .0408715    .0988618
                   |
               sex |
           female  |   .1472871   .0072804    20.23   0.000      .132933    .1616412
                   |
     insurance#sex |
  Medicaid#female  |   .0437597   .0241271     1.81   0.071    -.0038094    .0913288
 Uninsured#female  |   -.012076   .0211177    -0.57   0.568    -.0537118    .0295598
  Medicare#female  |  -.0888763   .0151969    -5.85   0.000    -.1188386    -.058914
                   |
      healthstatus |
        Very Good  |   .0737853   .0105081     7.02   0.000     .0530675     .094503
             Good  |   .1159634   .0113728    10.20   0.000     .0935408    .1383859
             Fair  |   .2015123   .0123947    16.26   0.000     .1770749    .2259496
             Poor  |   .2521038   .0154487    16.32   0.000     .2216451    .2825625
                   |
            agecat |
            18-24  |  -.0258016   .0134958    -1.91   0.057      -.05241    .0008068
            45-64  |   .0869574   .0091178     9.54   0.000     .0689807    .1049342
```

```
          65-74  |    .162363   .0116351    13.95   0.000     .1394231    .1853029
            75+  |    .189536   .0116863    16.22   0.000     .1664952    .2125767
                 |
            race |
          Black  |  -.1178243   .0103882   -11.34   0.000    -.1383058   -.0973428
       Hispanic  |  -.1150025   .0131188    -8.77   0.000    -.1408676   -.0891373
          Asian  |  -.1407749   .0161656    -8.71   0.000     -.172647   -.1089028
          Other  |   -.032871   .0346938    -0.95   0.345    -.1012734    .0355313
                 |
             fpl |
           Poor  |  -.0565723   .0134472    -4.21   0.000    -.0830849   -.0300598
      Near Poor  |  -.0510409   .0181924    -2.81   0.006    -.0869091   -.0151727
     Low Income  |  -.0391438   .0113795    -3.44   0.001    -.0615798   -.0167079
  Middle Income  |  -.0371092   .0098996    -3.75   0.000    -.0566273   -.0175912
                 |
       education |
Grade 8 and below  |   .0024143   .0155315     0.16   0.877    -.0282076    .0330363
 Some High School  |  -.0162994   .0117257    -1.39   0.166    -.0394178     .006819
     Some College  |   .0488912   .0096691     5.06   0.000     .0298276    .0679547
          College  |   .0901982   .0099331     9.08   0.000     .0706141    .1097823
  Advanced Degree  |    .103468   .0126997     8.15   0.000     .0784293    .1285068
                 |
          notmsa |  -.0135874   .0088065    -1.54   0.124    -.0309502    .0037754
                 |
          region |
        Midwest  |   .0003883   .0115426     0.03   0.973    -.0223691    .0231458
          South  |  -.0122769   .0100813    -1.22   0.225    -.0321532    .0075993
           West  |  -.0192716   .0110263    -1.75   0.082     -.041011    .0024678
                 |
           _cons |   .5879307   .0151007    38.93   0.000     .5581581    .6177033
----------------------------------------------------------------------------------

.
. eststo lpm

.
. * Logit regression
. svy, subpop(age18over): logit obtotv08n ib1.insurance##sex i.healthstatus ib3.agecat
i.race i.sex ///
> ib5.fpl ib3.education notmsa ib1.region
(running logit on estimation sample)

Survey: Logistic regression

Number of strata   =       165                  Number of obs      =      31258
Number of PSUs     =       370                  Population size    =  284307457
                                                Subpop. no. of obs =      20107
                                                Subpop. size       =  207295725
                                                Design df          =        205
                                                F(  32,    174)    =      75.83
                                                Prob > F           =     0.0000

----------------------------------------------------------------------------------
                 |             Linearized
       obtotv08n |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----------------+----------------------------------------------------------------
       insurance |
       Medicaid  |   .1186804   .1208557     0.98   0.327    -.1195992      .35696
      Uninsured  |  -.9656823   .0859632   -11.23   0.000    -1.135168   -.7961969
       Medicare  |   .2383294   .1377179     1.73   0.085    -.0331958    .5098545
                 |
             sex |
         female  |   .9512115   .0496533    19.16   0.000     .8533148    1.049108
```

```
                       |
         insurance#sex |
      Medicaid#female  |   .0799721   .1267309     0.63   0.529     -.169891    .3298352
     Uninsured#female  |  -.3674104   .1062548    -3.46   0.001    -.5769027   -.1579181
      Medicare#female  |  -.2699952   .1680248    -1.61   0.110    -.6012735     .061283
                       |
          healthstatus |
            Very Good  |   .4127457   .0589983     7.00   0.000     .2964245    .5290669
                 Good  |   .6793008   .0666499    10.19   0.000     .5478937     .810708
                 Fair  |   1.370507   .0898606    15.25   0.000     1.193337    1.547676
                 Poor  |    2.15732   .1987641    10.85   0.000     1.765436    2.549204
                       |
                agecat |
                18-24  |  -.0595924   .0685782    -0.87   0.386    -.1948013    .0756165
                45-64  |   .4947306   .0562597     8.79   0.000     .3838089    .6056524
                65-74  |    1.23893   .1173271    10.56   0.000     1.007608    1.470253
                  75+  |   1.785625   .1639472    10.89   0.000     1.462386    2.108864
                       |
                  race |
                Black  |  -.6944178   .0586745   -11.84   0.000    -.8101007    -.578735
             Hispanic  |  -.6218349   .0717762    -8.66   0.000     -.763349   -.4803207
                Asian  |  -.8599299   .0855788   -10.05   0.000    -1.028657   -.6912025
                Other  |  -.2511919   .2096103    -1.20   0.232    -.6644603    .1620766
                       |
                   fpl |
                 Poor  |    -.36992   .0816197    -4.53   0.000    -.5308418   -.2089982
            Near Poor  |  -.3545885   .1162897    -3.05   0.003    -.5838656   -.1253113
           Low Income  |  -.2624286   .0725383    -3.62   0.000    -.4054454   -.1194119
        Middle Income  |  -.2496556   .0621756    -4.02   0.000    -.3722413     -.12707
                       |
             education |
   Grade 8 and below   |  -.0393499   .1030583    -0.38   0.703      -.24254    .1638402
    Some High School   |  -.0955722   .0679421    -1.41   0.161     -.229527    .0383827
        Some College   |   .2877786   .0604707     4.76   0.000     .1685543    .4070029
             College   |   .5670646   .0680307     8.34   0.000      .432935    .7011942
     Advanced Degree   |    .696993   .0995001     7.00   0.000     .5008182    .8931678
                       |
                notmsa |  -.1003801   .0593549    -1.69   0.092    -.2174044    .0166442
                       |
                region |
              Midwest  |  -.0095235   .0781824    -0.12   0.903    -.1636683    .1446212
                South  |  -.0830117   .0682538    -1.22   0.225    -.2175811    .0515578
                 West  |    -.12984   .0734891    -1.77   0.079    -.2747315    .0150514
                       |
                 _cons |   .2607229   .0860613     3.03   0.003     .0910441    .4304017
------------------------------------------------------------------------------------

.
. eststo logit1

.
. svy, subpop(age18over): logit obtotv08n ib1.insurance##sex i.healthstatus ib3.agecat
i.race i.sex ///
> ib5.fpl ib3.education notmsa ib1.region, or
(running logit on estimation sample)

Survey: Logistic regression

Number of strata   =       165                  Number of obs      =      31258
Number of PSUs     =       370                  Population size    =  284307457
                                                Subpop. no. of obs =      20107
                                                Subpop. size       =  207295725
                                                Design df          =        205
```

F(32, 174) = 75.83
Prob > F = 0.0000

obtotv08n	Odds Ratio	Linearized Std. Err.	t	P>|t|	[95% Conf.	Interval]
insurance						
Medicaid	1.12601	.1360848	0.98	0.327	.887276	1.428979
Uninsured	.3807233	.0327282	-11.23	0.000	.3213682	.4510411
Medicare	1.269127	.1747816	1.73	0.085	.9673492	1.665049
sex						
female	2.588844	.1285448	19.16	0.000	2.347415	2.855104
insurance#sex						
Medicaid#female	1.083257	.1372821	0.63	0.529	.8437568	1.390739
Uninsured#female	.6925254	.0735841	-3.46	0.001	.5616352	.8539198
Medicare#female	.7633831	.1282673	-1.61	0.110	.5481132	1.0632
healthstatus						
Very Good	1.510961	.089144	7.00	0.000	1.345041	1.697348
Good	1.972498	.1314668	10.19	0.000	1.729606	2.2495
Fair	3.937345	.3538124	15.25	0.000	3.298069	4.700535
Poor	8.64793	1.718898	10.85	0.000	5.844119	12.79691
agecat						
18-24	.9421485	.0646108	-0.87	0.386	.8229981	1.078549
45-64	1.640056	.092269	8.79	0.000	1.467865	1.832447
65-74	3.451919	.4050037	10.56	0.000	2.739041	4.350335
75+	5.963304	.9776669	10.89	0.000	4.316246	8.238873
race						
Black	.4993651	.0293	-11.84	0.000	.4448133	.5606071
Hispanic	.5369583	.0385408	-8.66	0.000	.4661028	.618585
Asian	.4231917	.0362162	-10.05	0.000	.3574866	.5009733
Other	.7778731	.1630502	-1.20	0.232	.5145512	1.17595
fpl						
Poor	.6907896	.0563821	-4.53	0.000	.5881097	.8113967
Near Poor	.7014621	.0815728	-3.05	0.003	.5577382	.8822222
Low Income	.7691813	.0557951	-3.62	0.000	.6666798	.8874422
Middle Income	.779069	.0484391	-4.02	0.000	.689188	.880672
education						
Grade 8 and below	.9614142	.0990817	-0.38	0.703	.7846324	1.178026
Some High School	.9088528	.0617493	-1.41	0.161	.7949095	1.039129
Some College	1.333462	.0806354	4.76	0.000	1.183592	1.502308
College	1.763084	.1199439	8.34	0.000	1.541776	2.016159
Advanced Degree	2.007706	.1997671	7.00	0.000	1.650071	2.442856
notmsa	.9044935	.0536861	-1.69	0.092	.8046045	1.016783
region						
Midwest	.9905217	.0774414	-0.12	0.903	.8490236	1.155602
South	.9203404	.0628167	-1.22	0.225	.8044624	1.05291
West	.8782359	.0645408	-1.77	0.079	.7597761	1.015165
_cons	1.297868	.1116962	3.03	0.003	1.095317	1.537875

```
.
. eststo logit2
```

```
.
. * Table 1
. esttab lpm using hw4table1.rtf , se r2 replace keep(2.sex 2.insurance 3.insurance
4.insurance 2.insurance#
> 2.sex ///
>   3.insurance#2.sex  4.insurance#2.sex)  mtitles(LPM)  coeflabels(2.sex  Female
2.insurance "Public Insurance" /
> //
>  3.insurance  Uninsured  4.insurance  Medicare  2.insurance#2.sex  "Public  Insurance-
Female" ///
> 3.insurance#2.sex "Uninsured-Female" 4.insurance#2.sex "Medicare-Female") ///
> title(TABLE 1. LPM Coefficients, Model 1)
(output written to hw4table1.rtf)

.
. * Table 2
. esttab logit1 logit2 using hw4table2.rtf , se r2 replace keep(2.sex 2.insurance
3.insurance 4.insurance 2.
> insurance#2.sex ///
>  3.insurance#2.sex  4.insurance#2.sex)  mtitles(Coefficients  OR)  coeflabels(2.sex
Female 2.insurance "Public
> Insurance" ///
>  3.insurance  Uninsured  4.insurance  Medicare  2.insurance#2.sex  "Public  Insurance-
Female" ///
> 3.insurance#2.sex "Uninsured-Female" 4.insurance#2.sex "Medicare-Female") ///
> title(TABLE 2. Logit Coefficients and Odds Ratios, Model 1) eform(0 1)
(output written to hw4table2.rtf)

.
. ** Model 2
. * Linear Probability Model
.  svy,  subpop(age18over):  reg  obtotv08n  ib1.inssexcat  ib1.healthstatus  ib3.agecat
i.race ///
> ib5.fpl ib3.education notmsa ib1.region
(running regress on estimation sample)

Survey: Linear regression

Number of strata   =       165                  Number of obs      =      31258
Number of PSUs     =       370                  Population size    =  284307457
                                                Subpop. no. of obs =      20107
                                                Subpop. size       =  207295725
                                                Design df          =        205
                                                F(  32,    174)    =     173.38
                                                Prob > F           =     0.0000
                                                R-squared          =     0.2064

------------------------------------------------------------------------------------
                  |             Linearized
        obtotv08n |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------------+-----------------------------------------------------------------
        inssexcat |
   Priv Ins Women |   .1472871   .0072804    20.23   0.000      .132933    .1616412
     Medicaid Men |   .0036096   .0250178     0.14   0.885    -.0457156    .0529348
   Medicaid Women |   .1946564   .0155975    12.48   0.000     .1639043    .2254085
    Uninsured Men |  -.2405578   .0176057   -13.66   0.000    -.2752693   -.2058464
  Uninsured Women |  -.1053468   .0180801    -5.83   0.000    -.1409936   -.0696999
     Medicare Men |   .0698667   .0147064     4.75   0.000     .0408715    .0988618
   Medicare Women |   .1282775    .011826    10.85   0.000     .1049613    .1515937
                  |
     healthstatus |
        Very Good |   .0737853   .0105081     7.02   0.000     .0530675     .094503
```

```
             Good  |   .1159634   .0113728    10.20   0.000     .0935408    .1383859
             Fair  |   .2015123   .0123947    16.26   0.000     .1770749    .2259496
             Poor  |   .2521038   .0154487    16.32   0.000     .2216451    .2825625
                   |
           agecat  |
            18-24  |  -.0258016   .0134958    -1.91   0.057      -.05241    .0008068
            45-64  |   .0869574   .0091178     9.54   0.000     .0689807    .1049342
            65-74  |    .162363   .0116351    13.95   0.000     .1394231    .1853029
              75+  |    .189536   .0116863    16.22   0.000     .1664952    .2125767
                   |
             race  |
            Black  |  -.1178243   .0103882   -11.34   0.000    -.1383058   -.0973428
         Hispanic  |  -.1150025   .0131188    -8.77   0.000    -.1408676   -.0891373
            Asian  |  -.1407749   .0161656    -8.71   0.000     -.172647   -.1089028
            Other  |   -.032871   .0346938    -0.95   0.345    -.1012734    .0355313
                   |
              fpl  |
             Poor  |  -.0565723   .0134472    -4.21   0.000    -.0830849   -.0300598
        Near Poor  |  -.0510409   .0181924    -2.81   0.006    -.0869091   -.0151727
       Low Income  |  -.0391438   .0113795    -3.44   0.001    -.0615798   -.0167079
    Middle Income  |  -.0371092   .0098996    -3.75   0.000    -.0566273   -.0175912
                   |
        education  |
Grade 8 and below  |   .0024143   .0155315     0.16   0.877    -.0282076    .0330363
 Some High School  |  -.0162994   .0117257    -1.39   0.166    -.0394178     .006819
     Some College  |   .0488912   .0096691     5.06   0.000     .0298276    .0679547
          College  |   .0901982   .0099331     9.08   0.000     .0706141    .1097823
  Advanced Degree  |    .103468   .0126997     8.15   0.000     .0784293    .1285068
                   |
           notmsa  |  -.0135874   .0088065    -1.54   0.124    -.0309502    .0037754
                   |
           region  |
          Midwest  |   .0003883   .0115426     0.03   0.973    -.0223691    .0231458
            South  |  -.0122769   .0100813    -1.22   0.225    -.0321532    .0075993
             West  |  -.0192716   .0110263    -1.75   0.082     -.041011    .0024678
                   |
            _cons  |   .5879307   .0151007    38.93   0.000     .5581581    .6177033
------------------------------------------------------------------------------------

.
. eststo lpm2

.
. * Table 3
. esttab lpm2 using hw4table3.rtf, se r2 replace keep(2.inssexcat 3.inssexcat ///
> 4.inssexcat 5.inssexcat 6.inssexcat 7.inssexcat 8.inssexcat) ///
> mtitles(LPM) coeflabels(2.inssexcat "Private Insurance - Women" 3.inssexcat "Public
Insurance - Men" ///
>  4.inssexcat  "Public  Insurance  -  Women"  5.inssexcat  "Uninsured  -  Men"  6.inssexcat
"Uninsured - Women" ///
> 7.inssexcat "Medicare - Men" 8.inssexcat "Medicare - Women") ///
> title(TABLE 3. LPM Coefficients, Model 2)
(output written to hw4table3.rtf)

.
. * Logit Model
.  svy,  subpop(age18over):  logit  obtotv08n  ib1.inssexcat  i.healthstatus  ib3.agecat
i.race ///
> ib5.fpl ib3.education notmsa ib1.region
(running logit on estimation sample)

Survey: Logistic regression
```

Number of strata = 165
Number of PSUs = 370

Number of obs = 31258
Population size = 284307457
Subpop. no. of obs = 20107
Subpop. size = 207295725
Design df = 205
F(32, 174) = 75.83
Prob > F = 0.0000

obtotv08n	Coef.	Linearized Std. Err.	t	P>|t|	[95% Conf.	Interval]
inssexcat						
Priv Ins Women	.9512115	.0496533	19.16	0.000	.8533148	1.049108
Medicaid Men	.1186804	.1208557	0.98	0.327	-.1195992	.35696
Medicaid Women	1.149864	.1021498	11.26	0.000	.9484652	1.351263
Uninsured Men	-.9656823	.0859632	-11.23	0.000	-1.135168	-.7961969
Uninsured Women	-.3818811	.0843203	-4.53	0.000	-.5481273	-.215635
Medicare Men	.2383294	.1377179	1.73	0.085	-.0331958	.5098545
Medicare Women	.9195457	.1595805	5.76	0.000	.6049163	1.234175
healthstatus						
Very Good	.4127457	.0589983	7.00	0.000	.2964245	.5290669
Good	.6793008	.0666499	10.19	0.000	.5478937	.810708
Fair	1.370507	.0898606	15.25	0.000	1.193337	1.547676
Poor	2.15732	.1987641	10.85	0.000	1.765436	2.549204
agecat						
18-24	-.0595924	.0685782	-0.87	0.386	-.1948013	.0756165
45-64	.4947306	.0562597	8.79	0.000	.3838089	.6056524
65-74	1.23893	.1173271	10.56	0.000	1.007608	1.470253
75+	1.785625	.1639472	10.89	0.000	1.462386	2.108864
race						
Black	-.6944178	.0586745	-11.84	0.000	-.8101007	-.578735
Hispanic	-.6218349	.0717762	-8.66	0.000	-.763349	-.4803207
Asian	-.8599299	.0855788	-10.05	0.000	-1.028657	-.6912025
Other	-.2511919	.2096103	-1.20	0.232	-.6644603	.1620766
fpl						
Poor	-.36992	.0816197	-4.53	0.000	-.5308418	-.2089982
Near Poor	-.3545885	.1162897	-3.05	0.003	-.5838656	-.1253113
Low Income	-.2624286	.0725383	-3.62	0.000	-.4054454	-.1194119
Middle Income	-.2496556	.0621756	-4.02	0.000	-.3722413	-.12707
education						
Grade 8 and below	-.0393499	.1030583	-0.38	0.703	-.24254	.1638402
Some High School	-.0955722	.0679421	-1.41	0.161	-.229527	.0383827
Some College	.2877786	.0604707	4.76	0.000	.1685543	.4070029
College	.5670646	.0680307	8.34	0.000	.432935	.7011942
Advanced Degree	.696993	.0995001	7.00	0.000	.5008182	.8931678
notmsa	-.1003801	.0593549	-1.69	0.092	-.2174044	.0166442
region						
Midwest	-.0095235	.0781824	-0.12	0.903	-.1636683	.1446212
South	-.0830117	.0682538	-1.22	0.225	-.2175811	.0515578
West	-.12984	.0734891	-1.77	0.079	-.2747315	.0150514
_cons	.2607229	.0860613	3.03	0.003	.0910441	.4304017

.

```
. eststo logit3

.
. * Table 4
. esttab logit3 logit3 using hw4table4.rtf, se r2 replace keep(2.inssexcat 3.inssexcat
///
> 4.inssexcat 5.inssexcat 6.inssexcat 7.inssexcat 8.inssexcat) ///
>  mtitles(Coefficients  OR)  coeflabels(2.inssexcat  "Private  Insurance  -  Women"
3.inssexcat "Public Insurance
> - Men" ///
>  4.inssexcat "Public Insurance - Women" 5.inssexcat "Uninsured - Men" 6.inssexcat
"Uninsured - Women" ///
> 7.inssexcat "Medicare - Men" 8.inssexcat "Medicare - Women") ///
> title(TABLE 4. Logit Coefficients and Odds Ratios, Model 2) eform(0 1)
(output written to hw4table4.rtf)

.
. /*2g*/
. * Quietly
. svy, subpop(age18over): logit obtotv08n ib1.race ib3.agecat ib5.fpl notmsa ///
> ib1.inssexcat ib3.education ib1.region ib1.healthstatus
(running logit on estimation sample)

Survey: Logistic regression

Number of strata   =       165                  Number of obs      =      31258
Number of PSUs     =       370                  Population size    =  284307457
                                                Subpop. no. of obs =      20107
                                                Subpop. size       =  207295725
                                                Design df          =        205
                                                F(  32,    174)    =      75.83
                                                Prob > F           =     0.0000

------------------------------------------------------------------------------
             |             Linearized
   obtotv08n |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
        race |
      Black  |  -.6944178   .0586745   -11.84   0.000    -.8101007    -.578735
   Hispanic  |  -.6218349   .0717762    -8.66   0.000     -.763349   -.4803207
      Asian  |  -.8599299   .0855788   -10.05   0.000    -1.028657   -.6912025
      Other  |  -.2511919   .2096103    -1.20   0.232    -.6644603    .1620766
             |
      agecat |
      18-24  |  -.0595924   .0685782    -0.87   0.386    -.1948013    .0756165
      45-64  |   .4947306   .0562597     8.79   0.000     .3838089    .6056524
      65-74  |    1.23893   .1173271    10.56   0.000     1.007608    1.470253
        75+  |   1.785625   .1639472    10.89   0.000     1.462386    2.108864
             |
         fpl |
       Poor  |    -.36992   .0816197    -4.53   0.000    -.5308418   -.2089982
  Near Poor  |  -.3545885   .1162897    -3.05   0.003    -.5838656   -.1253113
 Low Income  |  -.2624286   .0725383    -3.62   0.000    -.4054454   -.1194119
Middle Income  |  -.2496556   .0621756    -4.02   0.000    -.3722413     -.12707
             |
      notmsa |  -.1003801   .0593549    -1.69   0.092    -.2174044    .0166442
             |
   inssexcat |
Priv Ins Women  |   .9512115   .0496533    19.16   0.000     .8533148    1.049108
Medicaid Men  |   .1186804   .1208557     0.98   0.327    -.1195992      .35696
Medicaid Women  |   1.149864   .1021498    11.26   0.000     .9484652    1.351263
Uninsured Men  |  -.9656823   .0859632   -11.23   0.000    -1.135168   -.7961969
Uninsured Women  |  -.3818811   .0843203    -4.53   0.000    -.5481273    -.215635
```

```
     Medicare Men  |   .2383294   .1377179     1.73   0.085    -.0331958    .5098545
   Medicare Women  |   .9195457   .1595805     5.76   0.000     .6049163    1.234175
                   |
         education |
Grade 8 and below  |  -.0393499   .1030583    -0.38   0.703      -.24254    .1638402
 Some High School  |  -.0955722   .0679421    -1.41   0.161     -.229527    .0383827
     Some College  |   .2877786   .0604707     4.76   0.000     .1685543    .4070029
          College  |   .5670646   .0680307     8.34   0.000      .432935    .7011942
  Advanced Degree  |    .696993   .0995001     7.00   0.000     .5008182    .8931678
                   |
            region |
          Midwest  |  -.0095235   .0781824    -0.12   0.903    -.1636683    .1446212
            South  |  -.0830117   .0682538    -1.22   0.225    -.2175811    .0515578
             West  |    -.12984   .0734891    -1.77   0.079    -.2747315    .0150514
                   |
      healthstatus |
        Very Good  |   .4127457   .0589983     7.00   0.000     .2964245    .5290669
             Good  |   .6793008   .0666499    10.19   0.000     .5478937     .810708
             Fair  |   1.370507   .0898606    15.25   0.000     1.193337    1.547676
             Poor  |    2.15732   .1987641    10.85   0.000     1.765436    2.549204
                   |
             _cons |   .2607229   .0860613     3.03   0.003     .0910441    .4304017
------------------------------------------------------------------------------------

. margins, dydx(inssexcat) noestimcheck

Average marginal effects                          Number of obs   =      26721
Model VCE    : Linearized

Expression   : Pr(obtotv08n), predict()
dy/dx w.r.t. : 2.inssexcat 3.inssexcat 4.inssexcat 5.inssexcat 6.inssexcat 7.inssexcat
8.inssexcat

----------------------------------------------------------------------------------
                |            Delta-method
                |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
----------------+-----------------------------------------------------------------
      inssexcat |
 Priv Ins Women  |   .1594575   .0079347    20.10   0.000     .1439058    .1750092
   Medicaid Men  |   .0227213   .0228466     0.99   0.320    -.0220572    .0674998
 Medicaid Women  |   .1852411   .0135743    13.65   0.000     .1586359    .2118464
  Uninsured Men  |  -.1981353   .0178939   -11.07   0.000    -.2332067   -.1630638
Uninsured Women  |   -.076672   .0173164    -4.43   0.000    -.1106116   -.0427325
   Medicare Men  |   .0449397   .0252596     1.78   0.075    -.0045683    .0944476
 Medicare Women  |   .1550918   .0228278     6.79   0.000     .1103502    .1998334
----------------------------------------------------------------------------------
Note: dy/dx for factor levels is the discrete change from the base level.

.
. est store margins

.
. * Table 5
. esttab margins using hw4table5.rtf, se r2 replace keep(2.inssexcat 3.inssexcat ///
> 4.inssexcat 5.inssexcat 6.inssexcat 7.inssexcat 8.inssexcat) ///
>  mtitles(Marginal  Effects)  coeflabels(2.inssexcat  "Private  Insurance  -  Women"
3.inssexcat "Public Insurance
>  - Men" ///
>  4.inssexcat  "Public  Insurance  -  Women"  5.inssexcat  "Uninsured  -  Men"  6.inssexcat
"Uninsured - Women" ///
> 7.inssexcat "Medicare - Men" 8.inssexcat "Medicare - Women") ///
> title(TABLE 5. Logit Marginal Effects, Model 2)
(output written to hw4table5.rtf)
```

```
.
.
end of do-file

. log close
      name:  <unnamed>
       log:       /Users/jojo/Documents/JHU/TA   Folder/Advanced   HSR   Methods   -
Analysis/Answers/Assignment4_2016.lo
> g
  log type:  text
 closed on:   4 Oct 2016, 15:48:43
-------------------------------------------------------------------------------------
----------------------
```