```
STATA RESULTS FOR EXEMPLAR 3
Black code is comments
Red code commands
Blue code results

. /*-----------------------------------------------------
> first set up the survey design and view its properties with svydes
> note that we need strata within regions (regstrat)
> -----------------------------------------------------*/
. svyset [pwei=weighta],psu(psu) strata(regstrat)
pweight is weighta
strata is regstrat
psu is psu
            . svydes

pweight:  weighta
Strata:   regstrat
PSU:      psu
                                      #Obs per PSU
 Strata                          ----------------------------
regstrat    #PSUs     #Obs        min      mean       max
--------  --------  --------  --------  --------  --------
     101         2        48        23      24.0        25
     102         2        45        21      22.5        24
     103         2        58        18      29.0        40
     104         2        65        26      32.5        39
lines missed out here
     415         3        91        24      30.3        37
lines missed out here
     718         2        57        24      28.5        33
     719         2        51        24      25.5        27
--------  --------  --------  --------  --------  --------
     154       312      9047        12      29.0        43

. /*-----------------------------------------------------
> you should find that you have strata each with 2 or (in a few cases)
> 3 PSUs
>
> Now get proportions in cigarette smoking categories and their standard errors
> -----------------------------------------------------*/
. svyprop cigst1

------------------------------------------------------------------------------
pweight:  weighta                                Number of obs      =      9047
Strata:   regstrat                               Number of strata   =       154
PSU:      psu                                    Number of PSUs     =       312
                                                 Population size    =  9006.178
------------------------------------------------------------------------------

Survey proportions estimation

  +------------------------------------------------------------------------+
  |                                cigst1    Obs   Est. Prop.   Std. Err. |
  |------------------------------------------------------------------------|
```

```
  |                 Refused/Not answered     14     0.001534    0.000491 |
  |                            Dont know     16     0.002548    0.000716 |
  |                schedule not obtained      3     0.000601    0.000371 |
  |                       not applicable      3     0.000230    0.000133 |
  |        Never smoked cigarettes at all   3711     0.436668    0.006127 |
  |-------------------------------------------------------------------------|
  | Used to smoke cigarettes occasionally    269     0.030702    0.002425 |
  |    Used to smoke cigarettes regularly   1895     0.196159    0.004592 |
  |             Current cigarette smoker    3136     0.331559    0.005967 |
  +-------------------------------------------------------------------------+

. /*-----------------------------------------------------------
> svyprop does not give design effects or confidence intervals
> to get these for smokers you need to recode
> to a 0/1 variable and get its mean value
> -----------------------------------------------------------*/
. recode cigst1 (-9 -8 -6 =.) (-1 1 2 3=0) (4=1),gen(smoker)
(5911 differences between cigst1 and smoker)

. svyprop smoker

------------------------------------------------------------------------------
pweight:  weighta                             Number of obs      =      9014
Strata:   regstrat                            Number of strata   =       154
PSU:      psu                                 Number of PSUs     =       312
                                              Population size    = 8964.0037
------------------------------------------------------------------------------

Survey proportions estimation

  +----------------------------------------+
  | smoker    Obs   Est. Prop.   Std. Err. |
  |----------------------------------------|
  |      0   5878     0.666881    0.006010 |
  |      1   3136     0.333119    0.006010 |
  +----------------------------------------+

. svymean smoker,deff deft ci
. /*-----------------------------------------------
> To investigate the effect of other survey designs
> one can redo the svyset command
> BUT before rerunning we need to clear previous settings
> -----------------------------------------------------------------------*/
. /*-----------first just weights---------------*/
. svyset, clear(all)
no variables are set

. svyset [pwei=weighta]



pweight is weighta

.  svymean smoker,deff deft
```

```
Survey mean estimation
pweight:  weighta                                     Number of obs    =      9014
Strata:   <one>                                       Number of strata =         1
PSU:      <observations>                              Number of PSUs   =      9014
                                                      Population size  = 8964.0037
--------------------------------------------------------------------------------
    Mean |   Estimate    Std. Err.       Deff        Deft
---------+----------------------------------------------------------------------
  smoker |   .3331194    .0057008    1.318523     1.14827
--------------------------------------------------------------------------------

. /*-----------then add strata---------------*/
. svyset, clear(all)
no variables are set

. svyset [pwei=weighta],strata(regstrat)
pweight is weighta
strata is regstrat

.  svymean smoker,deff deft

Survey mean estimation
pweight:  weighta                                     Number of obs    =      9014
Strata:   regstrat                                    Number of strata =       154
PSU:      <observations>                              Number of PSUs   =      9014
                                                      Population size  = 8964.0037
--------------------------------------------------------------------------------
    Mean |   Estimate    Std. Err.       Deff        Deft
---------+----------------------------------------------------------------------
  smoker |   .3331194    .0056322    1.286988    1.134455
--------------------------------------------------------------------------------

. /*-----------now the full design as before---------------*/
. svyset, clear(all)
no variables are set

. svyset [pwei=weighta],strata(regstrat) psu(psu)
pweight is weighta
strata is regstrat
psu is psu

.  svymean smoker,deff deft
.
. /*-----------------------------------------------------------
> now looking at rates by sex
> -----------------------------------------------------------*/
. svymean smoker, by(sex)

Survey mean estimation
```

```
pweight:  weighta                                     Number of obs    =      9014
Strata:   regstrat                                    Number of strata =       154
PSU:      psu                                         Number of PSUs   =       312
                                                      Population size  = 8964.0037
------------------------------------------------------------------------------
Mean   Subpop. |   Estimate    Std. Err.   [95% Conf. Interval]         Deff
---------------+--------------------------------------------------------------
smoker         |
          male |   .3419507    .0084952    .3251718    .3587296     1.419651
        female |   .3245964    .0078806    .3090315    .3401614      1.29928
------------------------------------------------------------------------------


. /*--------- to get a test of differrences by sex use lincom
>            for linear combinations-----------------*/
. lincom [smoker]male-[smoker]female

 ( 1)  [smoker]male - [smoker]female = 0
------------------------------------------------------------------------------
        Mean |   Estimate   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         (1) |   .0173543   .0111258     1.56   0.121    -.0046203    .0393288
------------------------------------------------------------------------------


. /*-----------------------------------------------------
> and by adults in the household
> -----------------------------------------------------*/
. svymean smoker, by(nofad)

Survey mean estimation
pweight:  weighta                                     Number of obs    =      9014
Strata:   regstrat                                    Number of strata =       154
PSU:      psu                                         Number of PSUs   =       312
                                                      Population size  = 8964.0037
------------------------------------------------------------------------------
Mean   Subpop. |   Estimate    Std. Err.   [95% Conf. Interval]         Deff
---------------+--------------------------------------------------------------
smoker         |
      nofad==1 |   .4408193    .0099747    .4211183    .4605202     .6521785
      nofad==2 |   .3189418    .0073425    .3044398    .3334438     1.219789
      nofad==3 |   .2887937    .0145437    .2600685    .3175188     1.607311
      nofad==4 |   .2894893    .0283638    .2334682    .3455104     2.801671
      nofad==5 |   .3479849    .0740851    .2016601    .4943097     3.931923
      nofad==6 |          0           0           0           0            .
      nofad==7 |          0           0           0           0            .
      nofad==8 |    .617777    .3339362   -.0417778    1.277332     6.100542
      nofad==9 |          0           0           0           0            .
------------------------------------------------------------------------------
```

```
. /*-----and compare nofad=1 with nofad=2-----------------*/
. lincom [smoker]1-[smoker]2


 ( 1)  [smoker]1 - [smoker]2 = 0

------------------------------------------------------------------------------
        Mean |   Estimate   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         (1) |   .1218775    .012969     9.40   0.000     .0962625    .1474925
------------------------------------------------------------------------------


. /*-------------------------------------------------
> smoking rates by region or health board are also easily calculated
> and lincom can give the comparisons between any pair
> or other combination
>
> -------------------------------------------------------*/
. svymean smoker, by(region)

Survey mean estimation
pweight:  weighta                                 Number of obs    =      9014
Strata:   regstrat                                Number of strata =       154
PSU:      psu                                     Number of PSUs   =       312
                                                  Population size  = 8964.0037
------------------------------------------------------------------------------
Mean   Subpop. |   Estimate    Std. Err.   [95% Conf. Interval]        Deff
---------------+--------------------------------------------------------------
smoker         |
      Highland |   .3278274    .0250704    .2783111    .3773436    1.375797
      Grampian |   .3267013    .0160343     .295032    .3583705    1.900358
      Lothian_ |   .3213779    .0114178    .2988266    .3439292    1.198679
      Borders, |   .2893518    .0228964    .2441293    .3345743    1.128549
        Glagow |   .3633258    .0164955    .3307457     .395906    1.845421
      Lanarksh |   .3425938    .0131008    .3167184    .3684691    1.256116
      Forth_Va |   .3273929    .0154412     .296895    .3578907    1.342229
------------------------------------------------------------------------------


. svymean smoker, by(hboard)

Survey mean estimation
pweight:  weighta                                 Number of obs    =      9014
Strata:   regstrat                                Number of strata =       154
PSU:      psu                                     Number of PSUs   =       312
```

```
                                                     Population size  = 8964.0037
------------------------------------------------------------------------------
Mean   Subpop. |   Estimate    Std. Err.   [95% Conf. Interval]         Deff
---------------+--------------------------------------------------------------
smoker         |
      Ayreshir |   .3405227    .0249012    .2913406    .3897047    2.091303
       Borders |   .2751782    .0339687    .2080869    .3422696    1.216756
      Argyll_& |   .3377994    .0226662    .2930315    .3825673    1.405142
          Fife |   .3514359    .0179934    .3158974    .3869745    1.048564
      Greater_ |   .3633258    .0164955    .3307457     .395906    1.845421
      Highland |   .3594827    .0311305    .2979971    .4209684    1.563275
      Lanarksh |   .3443544    .0187207    .3073794    .3813295    1.382976
      Grampian |   .2982887    .0189685    .2608242    .3357531    1.442587
        Orkney |   .2323456    .0107839    .2110463    .2536448    .0225086
       Lothian |   .3038667    .0152057    .2738341    .3338993       1.385
       Tayside |   .3570112     .024537    .3085483    .4054741    2.063279
      Forth_Va |    .317252    .0228504    .2721205    .3623836    1.513442
      Western_ |   .2505246    .0263358     .198509    .3025402    .1420666
      Dumfries |   .3021828    .0269545    .2489452    .3554204    .8004963
      Shetland |   .1831689    .0670901    .0506597    .3156781    1.141379
------------------------------------------------------------------------------


. lincom [smoker]Fife-[smoker]Lothian

 ( 1)  [smoker]Fife - [smoker]Lothian = 0


------------------------------------------------------------------------------
        Mean |   Estimate   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         (1) |   .0475692   .0237606     2.00   0.047     .0006399    .0944985
------------------------------------------------------------------------------

. lincom [smoker]Lanarksh-[smoker]Ayreshir


 ( 1) - [smoker]Ayreshir + [smoker]Lanarksh = 0
------------------------------------------------------------------------------
        Mean |   Estimate   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
         (1) |   .0038318   .0349296     0.11   0.913    -.0651573    .0728209
------------------------------------------------------------------------------

. /*--------- sorry about spelling mistake - in original file-----*/
. /*-------------------------------------------------
> now logistic regressions to predict smoking
>
```

```
> To use categorical variables you must first generate a set of dummy variables
> here for number of adults
> ------------------------------------------------*/
. tabulate nofad,generate(nofad)

  Number of |
    adults. |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |      3,046       33.67       33.67
          2 |      4,613       50.99       84.66
          3 |        992       10.96       95.62
          4 |        330        3.65       99.27
          5 |         56        0.62       99.89
          6 |          6        0.07       99.96
          7 |          1        0.01       99.97
          8 |          2        0.02       99.99
          9 |          1        0.01      100.00
------------+-----------------------------------
      Total |      9,047      100.00

. /*-----------------------------------------------
> check the data set to see the new variables
> as there are so few households of more than 5
> it seems sensible to group them together
> and then to carry out the regression
> ------------------------------------------------*/
. replace nofad5=1 if nofad>5
(10 real changes made)

. /*---regressions include the comparisons with nofad1 only--------*/
. svylogit smoker nofad2 nofad3 nofad4

Survey logistic regression

pweight:  weighta                                 Number of obs    =      9014
Strata:   regstrat                                Number of strata =       154
PSU:      psu                                     Number of PSUs   =       312
                                                  Population size  = 8964.0037
                                                  F(   3,    156)  =     25.41
                                                  Prob > F         =    0.0000

------------------------------------------------------------------------------
      smoker |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      nofad2 |  -.4625912   .0598125    -7.73   0.000    -.5807264   -.3444561
      nofad3 |  -.6052021   .0829158    -7.30   0.000    -.7689683   -.4414358
      nofad4 |  -.6018177    .147868    -4.07   0.000    -.8938706   -.3097647
       _cons |   -.296048   .0465228    -6.36   0.000    -.3879349   -.2041611
------------------------------------------------------------------------------

. /*------------ we can compare with simple logistic regression---------
> --------------use coef to get comaparable results to the svy command----*/
. logistic smoker nofad2 nofad3 nofad4,coef
```

```
Logistic regression                                     Number of obs   =       9014
                                                        LR chi2(3)      =     143.44
                                                        Prob > chi2     =     0.0000
Log likelihood =  -5752.579                             Pseudo R2       =     0.0123

------------------------------------------------------------------------------
      smoker |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      nofad2 |  -.5172813   .0482623   -10.72   0.000    -.6118737   -.4226889
      nofad3 |  -.6473839   .0795895    -8.13   0.000    -.8033764   -.4913914
      nofad4 |  -.6380871   .1279033    -4.99   0.000    -.8887729   -.3874012
       _cons |  -.2803519   .0362628    -7.73   0.000    -.3514257   -.2092781
------------------------------------------------------------------------------
 . /*-------------- and we can get more complicated models
>                 looking at joint effect of age group sex
>                 and number of adults
> Test commands can be used to check if variables are significant in
>  the larger models
> ----------------------------------------------------------*/
. tabulate hboard,generate(hboard)

       Health Board |      Freq.     Percent        Cum.
--------------------+-----------------------------------
  Ayreshire & Arran |        744        8.22        8.22
            Borders |        388        4.29       12.51
     Argyll & Clyde |        614        6.79       19.30
               Fife |        662        7.32       26.62
    Greater Glasgow |      1,294       14.30       40.92
           Highland |        681        7.53       48.45
        Lanarkshire |        871        9.63       58.07
           Grampian |        726        8.02       66.10
             Orkney |         63        0.70       66.80
            Lothian |      1,174       12.98       79.77
            Tayside |        725        8.01       87.79
       Forth Valley |        509        5.63       93.41
      Western Isles |         98        1.08       94.50
Dumfries & Galloway |        438        4.84       99.34
           Shetland |         60        0.66      100.00
--------------------+-----------------------------------
              Total |      9,047      100.00

. tabulate ageg,generate(ageg)

       ageg |      Freq.     Percent        Cum.
------------+-----------------------------------
      16-19 |        391        4.32        4.32
      25-29 |        536        5.92       10.25
      35-39 |        765        8.46       18.70
      45-49 |        973       10.75       29.46
      55-59 |        984       10.88       40.33
      65-69 |        852        9.42       49.75
      70-74 |        759        8.39       58.14
      60-64 |        831        9.19       67.33
      50-54 |        742        8.20       75.53
```

```
      40-44 |        750        8.29       83.82
      30-34 |        760        8.40       92.22
      20-24 |        704        7.78      100.00
------------+-----------------------------------
      Total |      9,047      100.00

. tabulate sex,generate(sex)

    Sex of |
 respondent |
       from |
  household |
    grid. O |      Freq.     Percent        Cum.
------------+-----------------------------------
       male |      3,941       43.56       43.56
     female |      5,106       56.44      100.00
------------+-----------------------------------
      Total |      9,047      100.00

. svylogit smoker nofad2 nofad3 nofad4 sex2 ageg2-ageg12 hboard2-hboard15

Survey logistic regression

pweight:  weighta                                 Number of obs    =      9014
Strata:   regstrat                                Number of strata =       154
PSU:      psu                                     Number of PSUs   =       312
                                                  Population size  = 8964.0037
                                                  F(  29,    130)  =     11.94
                                                  Prob > F         =    0.0000

------------------------------------------------------------------------------
      smoker |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      nofad2 |  -.5612387   .0609933    -9.20   0.000     -.681706   -.4407714
      nofad3 |  -.7485357   .0909213    -8.23   0.000    -.9281135   -.5689578
      nofad4 |  -.7860213   .1571321    -5.00   0.000    -1.096372    -.475671
        sex2 |  -.1193292   .0521901    -2.29   0.024    -.2224095   -.0162489
       ageg2 |   .4888972   .1821246     2.68   0.008     .1291843    .8486101
       ageg3 |   .2063644   .1559656     1.32   0.188    -.1016821    .5144109
       ageg4 |   .3205004   .1600491     2.00   0.047     .0043888    .6366121
       ageg5 |   .1117259   .1457159     0.77   0.444    -.1760764    .3995282
       ageg6 |   .2468631   .1576949     1.57   0.119     -.064599    .5583251
       ageg7 |   .1650847   .1686705     0.98   0.329    -.1680551    .4982244
       ageg8 |   .1918504   .1501647     1.28   0.203    -.1047388    .4884395
       ageg9 |   .1454189   .1645114     0.88   0.378    -.1795063    .4703441
      ageg10 |  -.1560555   .1598613    -0.98   0.330    -.4717963    .1596854
      ageg11 |  -.4393657   .1757703    -2.50   0.013    -.7865283   -.0922032
      ageg12 |  -.7704922   .1644425    -4.69   0.000    -1.095281   -.4457032
     hboard2 |  -.2949776    .203661    -1.45   0.149    -.6972269    .1072717
     hboard3 |  -.0308084    .145793    -0.21   0.833     -.318763    .2571462
     hboard4 |    .017459   .1351148     0.13   0.897    -.2494052    .2843233
     hboard5 |   .0521162   .1321553     0.39   0.694    -.2089026    .3131351
     hboard6 |   .0988347   .1723596     0.57   0.567    -.2415914    .4392609
     hboard7 |   .0257908   .1519292     0.17   0.865    -.2742833    .3258648
```

```
     hboard8 |  -.2064544   .1482992    -1.39   0.166    -.4993589    .0864502
     hboard9 |  -.5131615   .1361878    -3.77   0.000    -.7821449   -.2441781
    hboard10 |  -.2055899   .1291238    -1.59   0.113    -.4606214    .0494415
    hboard11 |   .0477432   .1538141     0.31   0.757    -.2560537    .3515401
    hboard12 |  -.1433606   .1576678    -0.91   0.365    -.4547691    .1680478
    hboard13 |  -.4630294   .1779328    -2.60   0.010     -.814463   -.1115958
    hboard14 |  -.1637861   .1662252    -0.99   0.326    -.4920962     .164524
    hboard15 |  -.8051732   .4804435    -1.68   0.096    -1.754093    .1437469
       _cons |   -.196425   .1790967    -1.10   0.274    -.5501576    .1573076
------------------------------------------------------------------------------


. test sex2

Adjusted Wald test

 ( 1)  sex2 = 0

       F(  1,   158) =    1.03
            Prob > F =    0.3127

. test ageg2 ageg3 ageg4 ageg5 ageg6 ageg7 ageg8 ageg9 ageg10 ageg11 ageg12

Adjusted Wald test

 ( 1)  ageg2 = 0
 ( 2)  ageg3 = 0
 ( 3)  ageg4 = 0
 ( 4)  ageg5 = 0
 ( 5)  ageg6 = 0
 ( 6)  ageg7 = 0
 ( 7)  ageg8 = 0
 ( 8)  ageg9 = 0
 ( 9)  ageg10 = 0
 (10)  ageg11 = 0
 (11)  ageg12 = 0

       F( 11,   148) =    6.42
            Prob > F =    0.0000

. /*-----------------------------------------------------------------
> get dummies for the age sex interaction
> -----------------------------------------------------------------*/
. generate ageg2s=ageg2*(sex==1)
. generate ageg3s=ageg3*(sex==1)
. generate ageg4s=ageg4*(sex==1)
. generate ageg5s=ageg5*(sex==1)
. generate ageg6s=ageg6*(sex==1)
```

```
. generate ageg7s=ageg7*(sex==1)
. generate ageg8s=ageg8*(sex==1)
. generate ageg9s=ageg9*(sex==1)
. generate ageg10s=ageg10*(sex==1)
. generate ageg11s=ageg11*(sex==1)
. generate ageg12s=ageg12*(sex==1)

svylogit smoker nofad2 nofad3 nofad4 sex2 ageg2-ageg12 hboard2-hboard15 ageg2s-
ageg12s
Survey logistic regression
pweight:  weighta                                     Number of obs    =      9014
Strata:   regstrat                                    Number of strata =       154
PSU:      psu                                         Number of PSUs   =       312
                                                      Population size  = 8964.0037
                                                      F(  40,    119)  =      7.71
                                                      Prob > F         =    0.0000
------------------------------------------------------------------------------
      smoker |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      nofad2 |  -.5649544   .0608856    -9.28   0.000    -.6852091   -.4446997
      nofad3 |  -.7536616   .0926128    -8.14   0.000    -.9365805   -.5707427
      nofad4 |  -.8098296   .1577345    -5.13   0.000     -1.12137   -.4982894
        sex2 |   .2744983   .2710147     1.01   0.313    -.2607807    .8097773
       ageg2 |   .0620744   .2462163     0.25   0.801    -.4242254    .5483743
       ageg3 |   .0229399   .2295454     0.10   0.921    -.4304334    .4763131
       ageg4 |  -.0247639   .2006926    -0.12   0.902    -.4211503    .3716225
       ageg5 |  -.1542414   .1982643    -0.78   0.438    -.5458315    .2373488
       ageg6 |   .0865896   .2108846     0.41   0.682    -.3299268    .5031061
       ageg7 |  -.0092496    .224278    -0.04   0.967    -.4522192    .4337201
       ageg8 |   .0533689   .1981527     0.27   0.788    -.3380009    .4447388
       ageg9 |   .1510162   .2365119     0.64   0.524    -.3161166     .618149
      ageg10 |  -.5590369   .2192275    -2.55   0.012    -.9920313   -.1260425
      ageg11 |  -.5204729   .2332741    -2.23   0.027    -.9812107   -.0597351
      ageg12 |  -.8953448   .2270752    -3.94   0.000    -1.343839   -.4468504
     hboard2 |  -.3028365    .207801    -1.46   0.147    -.7132627    .1075896
     hboard3 |  -.0337248   .1478331    -0.23   0.820    -.3257087    .2582592
     hboard4 |   .0032226   .1385716     0.02   0.981    -.2704691    .2769143
     hboard5 |   .0453948   .1320654     0.34   0.732    -.2154465     .306236
     hboard6 |   .0938063   .1739568     0.54   0.590    -.2497744     .437387
     hboard7 |   .0224807   .1529716     0.15   0.883    -.2796522    .3246136
     hboard8 |  -.2122447   .1511458    -1.40   0.162    -.5107715    .0862821
     hboard9 |  -.5275344   .1574306    -3.35   0.001    -.8384743   -.2165945
    hboard10 |  -.2124226   .1302862    -1.63   0.105    -.4697497    .0449046
    hboard11 |   .0445227   .1562242     0.28   0.776    -.2640345      .35308
    hboard12 |  -.1588901   .1584109    -1.00   0.317    -.4717662     .153986
    hboard13 |  -.4628882   .1811377    -2.56   0.012    -.8206519   -.1051246
    hboard14 |  -.1826604   .1682906    -1.09   0.279    -.5150499    .1497291
    hboard15 |  -.8062307   .4707845    -1.71   0.089    -1.736073    .1236121
```

```
      ageg2s |    .824665   .3715844     2.22   0.028     .0907517    1.558578
      ageg3s |   .3504848   .3230779     1.08   0.280    -.2876237    .9885933
      ageg4s |   .6673566   .2912065     2.29   0.023      .092197    1.242516
      ageg5s |   .5117199   .2978448     1.72   0.088     -.076551    1.099991
      ageg6s |   .3084944   .3122679     0.99   0.325    -.3082634    .9252521
      ageg7s |   .3364531   .3147512     1.07   0.287    -.2852094    .9581156
      ageg8s |   .2614396   .3404926     0.77   0.444    -.4110647    .9339438
      ageg9s |  -.0546145   .3289639    -0.17   0.868    -.7043484    .5951195
     ageg10s |   .7881987   .3413227     2.31   0.022      .114055    1.462342
     ageg11s |   .1063126   .3237929     0.33   0.743    -.5332082    .7458333
     ageg12s |   .1880666   .3350127     0.56   0.575    -.4736143    .8497476
       _cons |  -.3746603   .2330058    -1.61   0.110    -.8348683    .0855476
------------------------------------------------------------------------------


. test ageg2s ageg3s ageg4s ageg5s ageg6s ageg7s ageg8s ageg9s ageg10s ageg11s
ageg12s
Adjusted Wald test
 ( 1)  ageg2s = 0
 ( 2)  ageg3s = 0
 ( 3)  ageg4s = 0
 ( 4)  ageg5s = 0
 ( 5)  ageg6s = 0
 ( 6)  ageg7s = 0
 ( 7)  ageg8s = 0
 ( 8)  ageg9s = 0
 ( 9)  ageg10s = 0
 (10)  ageg11s = 0
 (11)  ageg12s = 0
       F( 11,   148) =    2.02
            Prob > F =    0.0303
/*-----------------------------------------------------------------------

Shows little evidence of any difference in pattern by age for men and women
once adjusted for no of adults and health board
-----------------------------------------------------------------------*/
```