_subpop_8	**32.06179**	**2.453954**	**27.04289**	**37.08068**

```
1 .
2 .
3 . *unadjusted
4 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx
  (running mean on estimation sample)

  Survey: Mean estimation

  Number of strata =       28       Number of obs    =       19673
  Number of PSUs   =       57       Population size  =   270067896
                                    Subpop. no. obs  =        8960
                                    Subpop. size     =   189834912
                                    Design df        =          29
```

	Mean	Linearized Std. Err.	[95% Conf. Interval]	
hbpx	**29.163**	**.9816776**	**27.15524**	**31.17075**

```
5 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, over(riagen
  > dr)
  (running mean on estimation sample)

  Survey: Mean estimation

  Number of strata =       28       Number of obs    =       19673
  Number of PSUs   =       57       Population size  =   270067896
                                    Subpop. no. obs  =        8960
                                    Subpop. size     =   189834912
                                    Design df        =          29

          male: riagendr =  male
        female: riagendr =  female
```

Over	Mean	Linearized Std. Err.	[95% Conf. Interval]	
hbpx				
male	**27.27205**	**1.221283**	**24.77425**	**29.76986**
female	**30.9091**	**1.068973**	**28.7228**	**33.09539**

```
6 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, over(race)
  (running mean on estimation sample)

  Survey: Mean estimation

  Number of strata =       28       Number of obs    =       19673
  Number of PSUs   =       57       Population size  =   270067896
                                    Subpop. no. obs  =        8960
                                    Subpop. size     =   189834912
                                    Design df        =          29

      _subpop_1: race =  NH White
      _subpop_2: race =  NH Black
                         Mex American
      _subpop_4: race =  Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
hbpx				
_subpop_1	**29.6593**	**1.155505**	**27.29603**	**32.02257**
_subpop_2	**36.95625**	**1.51299**	**33.86183**	**40.05066**
_subpop_3	**17.14118**	**1.218031**	**14.65002**	**19.63233**
_subpop_4	**25.86597**	**2.295632**	**21.17087**	**30.56106**

```
7 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean hbpx, over(riagen
> dr race)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =       19673
Number of PSUs   =       57       Population size  =   270067896
                                  Subpop. no. obs  =        8960
                                  Subpop. size     =   189834912
                                  Design df        =          29

        Over: riagendr race
    _subpop_1:  male NH White
    _subpop_2:  male NH Black
    _subpop_3:  male Mex American
    _subpop_4:  male Other race/ethn
    _subpop_5:  female NH White
    _subpop_6:  female NH Black
    _subpop_7:  female Mex American
    _subpop_8:  female Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
hbpx				
_subpop_1	**27.75207**	**1.298662**	**25.09601**	**30.40813**
_subpop_2	**35.3589**	**1.543478**	**32.20213**	**38.51567**
_subpop_3	**17.2746**	**1.692196**	**13.81367**	**20.73553**
_subpop_4	**23.06553**	**2.843264**	**17.25041**	**28.88066**
_subpop_5	**31.46358**	**1.343947**	**28.7149**	**34.21225**
_subpop_6	**38.27635**	**2.136529**	**33.90666**	**42.64604**
_subpop_7	**17.00213**	**1.507995**	**13.91793**	**20.08632**
_subpop_8	**28.13741**	**3.1949**	**21.6031**	**34.67171**

```
8 .
9 . log close
       log:  c:\NHANES\log\adjprev.log
  log type:  text
             15 Oct 2008, 12:37:34
```

```
10 .
11 .
12 .
13 .
   end of do-file

14 . do "\\cdc\private\L722\evo2\My Web Sites\tutorials4\Nhanes\Download
   > s\Continuous\age_adj_mean.do"

15 . *****pgm: age_adj_mean.do****
16 .
17 . use "C:\NHANES\Data\analysis_data.dta", clear

18 .
19 . ***create variable codes*****
20 . gen     age=1 if ridageyr >=20 & ridageyr <40


21 . replace age=2 if ridageyr >=40 & ridageyr <60
   (2965 real changes made)

22 . replace age=3 if ridageyr >=60 & ridageyr <.
   (3706 real changes made)

23 .
24 . *create variable for proportions to standardize age
25 . gen std_wgt=.3966 if age==1
   (17384 missing values generated)

26 . replace std_wgt=.3718 if age==2
   (2965 real changes made)

27 . replace std_wgt=.2316 if age==3
   (3706 real changes made)

28 .
29 . gen     race=1 if ridreth1==3
   (13031 missing values generated)

30 . replace race=2 if ridreth1==4
   (4909 real changes made)

31 . replace race=3 if ridreth1==1


32 . replace race=4 if ridreth1==2 | ridreth1==5
   (1953 real changes made)

33 .
34 . ****format variables******
35 . label define agefmt 1 "20-39"

36 . label define agefmt 2 "40-59", add

37 . label define agefmt 3 "60+", add
```

```
38 .
39 . label define racefmt 1 "NH White",

40 . label define racefmt 2 "NH Black", add

41 . label define racefmt 3 "Mex American", add

42 . label define racefmt 4 "Other race/ethn", add

43 .
44 . label define sexfmt 1 "male"

45 . label define sexfmt 2 "female", add

46 .
47 . label values age agefmt

48 . label values riagendr sexfmt

49 . label values race racefmt

50 .
51 . log using "c:\NHANES\log\adjmeans.log", replace
```

```
      log:  c:\NHANES\log\adjmeans.log
 log type:  text
opened on:  15 Oct 2008, 12:41:22

52 .
53 . ****specify survey design variables****
54 . svyset sdmvpsu [pweight=wtmec4yr], strata(sdmvstra) vce(linearized)

        pweight:  wtmec4yr
            VCE:  linearized
  Single unit:  missing
     Strata 1:  sdmvstra
         SU 1:  sdmvpsu
        FPC 1:  <zero>

55 .
56 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean ridageyr, over(ra
   > ce)
   (running mean on estimation sample)

   Survey: Mean estimation

   Number of strata =       28       Number of obs    =        21004
   Number of PSUs   =       57       Population size  =    278652243
                                     Subpop. no. obs  =         9471
                                     Subpop. size     =    198419259
                                     Design df        =           29

       _subpop_1: race =  NH White
       _subpop_2: race =  NH Black
       _subpop_3: race =  Mex American
                          Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
ridageyr				
_subpop_1	**47.83663**	**.376492**	**47.06662**	**48.60665**
_subpop_2	**43.43103**	**.4551979**	**42.50005**	**44.36201**
_subpop_3	**37.95156**	**.6370793**	**36.64859**	**39.25453**
_subpop_4	**42.68304**	**.8063441**	**41.03388**	**44.3322**

```
57 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean ridageyr, over(ri
> agendr)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =       21004
Number of PSUs   =       57       Population size  =   278652243
                                  Subpop. no. obs  =        9471
                                  Subpop. size     =   198419259
                                  Design df        =          29

         male: riagendr =  male
       female: riagendr =  female
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
ridageyr				
male	**45.23593**	**.3529394**	**44.51409**	**45.95777**
female	**46.86465**	**.3894445**	**46.06814**	**47.66115**

```
58 .
59 . *age adjusted
60 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, stdize(ag
> e) stdweight(std_wgt)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =        9064
Number of PSUs   =       57       Population size  =   191620428
N. of std strata =        3       Subpop. no. obs  =        9064
                                  Subpop. size     =   191620428
                                                           29
```

	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi	**28.02152**	**.1340756**	**27.74731**	**28.29574**

```
61 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, stdize(ag
> e) stdweight(std_wgt) over(riagendr)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =         9064
Number of PSUs   =       57       Population size  =    191620428
N. of std strata =        3       Subpop. no. obs  =         9064
                                 Subpop. size     =    191620428
                                 Design df        =           29

         male: riagendr =  male
       female: riagendr =  female
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
male	**27.83518**	**.1303912**	**27.5685**	**28.10186**
female	**28.19427**	**.1668812**	**27.85296**	**28.53558**

```
62 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, stdize(ag
> e) stdweight(std_wgt) over(race)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =         9064
Number of PSUs   =       57       Population size  =    191620428
N. of std strata =        3       Subpop. no. obs  =         9064
                                 Subpop. size     =    191620428
                                 Design df        =           29

    _subpop_1: race =  NH White
    _subpop_2: race =  NH Black
    _subpop_3: race =  Mex American
    _subpop_4: race =  Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
_subpop_1	**27.77072**	**.1633996**	**27.43653**	**28.10491**
_subpop_2	**29.56942**	**.1933262**	**29.17402**	**29.96481**
_subpop_3	**28.52478**	**.1977909**	**28.12025**	**28.9293**
_subpop_4	**27.66605**	**.3336613**	**26.98364**	**28.34847**

```
63 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, stdize(ag
> e) stdweight(std_wgt) over(riagendr race)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =         9064
Number of PSUs   =       57       Population size  =    191620428
N. of std strata =        3       Subpop. no. obs  =         9064
                                 Subpop. size     =    191620428
                                                  =           29
```

```
          Over: riagendr race
     _subpop_1:  male NH White
     _subpop_2:  male NH Black
     _subpop_3:  male Mex American
     _subpop_4:  male Other race/ethn
     _subpop_5:  female NH White
     _subpop_6:  female NH Black
     _subpop_7:  female Mex American
     _subpop_8:  female Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
_subpop_1	**27.92459**	**.1675689**	**27.58187**	**28.2673**
_subpop_2	**27.5347**	**.1852574**	**27.15581**	**27.9136**
_subpop_3	**28.00639**	**.1887905**	**27.62027**	**28.39251**
_subpop_4	**27.1151**	**.2959399**	**26.50983**	**27.72036**
_subpop_5	**27.62087**	**.2073014**	**27.19689**	**28.04485**
_subpop_6	**31.17906**	**.276005**	**30.61457**	**31.74356**
_subpop_7	**29.06208**	**.3167067**	**28.41434**	**29.70982**
_subpop_8	**28.08603**	**.4250381**	**27.21673**	**28.95533**

```
64 .
65 .
66 . *unadjusted
67 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi
   (running mean on estimation sample)

   Survey: Mean estimation

   Number of strata =       28       Number of obs    =       19777
   Number of PSUs   =       57       Population size  =   271853412
                                   Subpop. no. obs  =        9064
                                   Subpop. size     =   191620428
                                   Design df        =          29
```

	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi	**28.01928**	**.1337983**	**27.74563**	**28.29293**

```
68 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, over(riag
   > endr)
   (running mean on estimation sample)

   Survey: Mean estimation

   Number of strata =       28       Number of obs    =       19777
   Number of PSUs   =       57       Population size  =   271853412
                                   Subpop. no. obs  =        9064
                                   Subpop. size     =   191620428
                                   Design df        =          29

            male: riagendr =  male
                              female
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
male	**27.82209**	**.1314971**	**27.55315**	**28.09103**
female	**28.20035**	**.1661457**	**27.86054**	**28.54016**

```
69 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, over(race
> )
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =       19777
Number of PSUs   =       57       Population size  =   271853412
                                  Subpop. no. obs  =        9064
                                  Subpop. size     =   191620428
                                  Design df        =          29

    _subpop_1: race =  NH White
    _subpop_2: race =  NH Black
    _subpop_3: race =  Mex American
    _subpop_4: race =  Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
_subpop_1	**27.82531**	**.161961**	**27.49406**	**28.15656**
_subpop_2	**29.50991**	**.2040501**	**29.09258**	**29.92724**
_subpop_3	**28.20142**	**.1860564**	**27.82089**	**28.58195**
_subpop_4	**27.7096**	**.344276**	**27.00548**	**28.41373**

```
70 . svy, subpop(if ridageyr >=20 & ridageyr <.): mean bmxbmi, over(riag
> endr race)
(running mean on estimation sample)

Survey: Mean estimation

Number of strata =       28       Number of obs    =       19777
Number of PSUs   =       57       Population size  =   271853412
                                  Subpop. no. obs  =        9064
                                  Subpop. size     =   191620428
                                  Design df        =          29

        Over: riagendr race
    _subpop_1:  male NH White
    _subpop_2:  male NH Black
    _subpop_3:  male Mex American
    _subpop_4:  male Other race/ethn
    _subpop_5:  female NH White
    _subpop_6:  female NH Black
    _subpop_7:  female Mex American
                female Other race/ethn
```

Over	Mean	Linearized Std. Err.	[95% Conf.	Interval]
bmxbmi				
_subpop_1	**27.97146**	**.1629487**	**27.63819**	**28.30472**
_subpop_2	**27.47229**	**.2013156**	**27.06055**	**27.88403**
_subpop_3	**27.70512**	**.2218706**	**27.25134**	**28.15889**
_subpop_4	**27.20158**	**.3128525**	**26.56172**	**27.84143**
_subpop_5	**27.6878**	**.2057362**	**27.26702**	**28.10858**
_subpop_6	**31.12176**	**.2803722**	**30.54833**	**31.69519**
_subpop_7	**28.74465**	**.3236612**	**28.08269**	**29.40661**
_subpop_8	**28.1202**	**.4408734**	**27.21852**	**29.02189**

```
71 .
72 . log close
       log:  c:\NHANES\log\adjmeans.log
  log type:  text
             15 Oct 2008, 12:41:42
```

```
73 .
74 .
75 .
76 .
   end of do-file

77 .
```