STaTa
Statistics/Data Analysis

```
   ------------------------------------------------------------------------------
        name:  <unnamed>
         log:  E:\nhats\nhats_code\NHATS data setup\logs\/1-combine_waves28_Feb_20
   > 19.smcl
    log type:  text
   opened on:  28 Feb 2019, 15:22:29

1 .
2 .
3 . /*Combines rounds 1 and 2 sample person SP interview files,
   > sensitive demo files and the round 2 cumulative tracker file case
   > status l into a single file
   >
   > Data format is multiple observations per subject, one for each round
   > */
4 . *********************************************
5 .
6 . forvalues w=1/$w {
   2. //round w
7 . use "${r`w'raw}NHATS_Round_`w'_SP_File.dta"
   3. //check to make sure sample ids are unique
8 . sort spid
   4. quietly by spid: gen dup = cond(_N==1,0,_n)
   5. tab dup
   6. capture gen wave=`w'
   7. la var wave "Survey wave"
   8. save round_`w'_1.dta, replace
   9. clear
  10. }

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      8,245      100.00      100.00
   ------------+-----------------------------------
       Total |      8,245      100.00
   file round_1_1.dta saved

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      7,075      100.00      100.00
   ------------+-----------------------------------
       Total |      7,075      100.00
   file round_2_1.dta saved

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      5,799      100.00      100.00
   ------------+-----------------------------------
       Total |      5,799      100.00
   file round_3_1.dta saved

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      4,737      100.00      100.00
   ------------+-----------------------------------
       Total |      4,737      100.00
   file round_4_1.dta saved

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      8,334      100.00      100.00
   ------------+-----------------------------------
       Total |      8,334      100.00
   file round_5_1.dta saved

         dup |      Freq.     Percent        Cum.
   ------------+-----------------------------------
           0 |      7,276      100.00      100.00
   ------------+-----------------------------------
       Total |      7,276      100.00
   file round_6_1.dta saved
```

```
           dup |      Freq.      Percent        Cum.
    ------------+-----------------------------------
             0 |      6,312       100.00      100.00
    ------------+-----------------------------------
         Total |      6,312       100.00
    file round_7_1.dta saved
 9.  .
10.  //round 1
11.  forvalues w=1/$w{
  2.  use round_`w'_1.dta
  3.
12.  if `w'!=1 local pd pd*
  4.
13.  //keep selected variables only
14.  local keepallwaves spid wave r`w'dresid w`w'varunit w`w'anfinwgt0 w`w'varstrat
  >    ///
  >         mo* r`w'd2intvrage hh`w'martlstat ///
  >         ip`w'cmedicaid ip`w'mgapmedsp ip`w'nginsnurs ip`w'covmedcad ip`w'covtr
  > icar ///
  >         hh* hc* ss* pc* cp* cg* ha* sc* mc* sd* pa* hw* ///
  >         is`w'* ht`w'placedesc fl`w'* ir* cm* ew* hp* sn* dt* `pd' gr* wa* r`w'
  > dorigwksc ///
  >         r`w'dnhatswksc r`w'dnhatsgrav r`w'dnhatsgrb wb* ho* cs*
  5.
15.  if `w'==1 {
  6.  keep `keepallwaves' r`w'dgender rl`w'dracehisp rl`w'spkothlan rl`w'condspan
  > h el`w'higstschl ///
  >         ia`w'*  re`w'resistrct re1dcensdiv va1serarmfor
  7.
16.  rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
  > `w'* ///
  > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
  > p`w'* ///
  > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* rl`w'* el`w'* ia`w'* re`w'* v
  > a`w'*) ///
  > (*)
  8.  destring dfavact, replace
  9.  }
 10.
17.  if `w'==2 {
 11.  keep `keepallwaves' re2intplace re2newstrct re2spadrsnew re2dresistrct ///
  >         re2dadrscorr re2dcensdiv ip2nginslast ep2eoltalk ep2poweratty ep2livng
  > will
 12.
18.  rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
  > `w'* ///
  > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
  > p`w'* ///
  > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* pd`w'*) ///
  > (*)
 13.  }
 14.
19.  if `w'==3 {
 15.  keep `keepallwaves' re3intplace re3newstrct re3spadrsnew re3dresistrct ///
  >         re3dcensdiv ip3nginslast ia*
 16.
20.  rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
  > `w'* ///
  > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
  > p`w'* ///
  > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* ia`w'* pd`w'*) ///
  > (*)
 17.  }
 18.  if `w'==4 {
 19.  keep `keepallwaves' re4intplace re4newstrct re4spadrsnew re4dresistrct ///
  >         re4dcensdiv ip4nginslast
 20.
```

```
 21. rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
   > `w'* ///
   > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
   > p`w'* ///
   > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* pd`w'*) ///
   > (*)
    21. }
    22. if `w'==5 {
    23. keep `keepallwaves' r`w'dgender rl`w'dracehisp rl`w'spkothlan rl`w'condspan
   > h el`w'higstschl re5intplace re5newstrct re5spadrsnew re5dresistrct ///
   >        re5dcensdiv ip5nginslast ia`w'* va5serarmfor w5an2011wgt0
    24.
 22. rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
   > `w'* ///
   > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
   > p`w'* ///
   > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* rl`w'* el`w'* ia`w'* re`w'* v
   > a`w'* pd`w'*) ///
   > (*)
    25. }
    26. if `w'==6 {
    27. keep `keepallwaves' re6intplace re6newstrct re6spadrsnew re6dresistrct ///
   >        re6dcensdiv ip6nginslast w6an2011wgt0
    28.
 23. rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
   > `w'* ///
   > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
   > p`w'* ///
   > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* pd`w'*) ///
   > (*)
    29. }
    30. if `w'==7 {
    31. keep `keepallwaves' re7intplace re7newstrct re7spadrsnew re7dresistrct ///
   >        re7dcensdiv ip7nginslast ia`w'* w7an2011wgt0
    32.
 24. rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
   > `w'* ///
   > sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
   > p`w'* ///
   > sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* ia`w'* pd`w'*) ///
   > (*)
    33. }
    34.
 25. save round_`w'_ltd.dta, replace
    35. }
   dfavact: all characters numeric; replaced as int
   file round_1_ltd.dta saved
   file round_2_ltd.dta saved
   file round_3_ltd.dta saved
   file round_4_ltd.dta saved
   file round_5_ltd.dta saved
   file round_6_ltd.dta saved
   file round_7_ltd.dta saved

 26.
 27. //check sensitive data files, keep only some variables, merge with ltd dataset
   > s
 28. forvalues w=1/$w{
    2.         use "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File.dta"
    3.         sort spid
    4.         quietly by spid: gen dup = cond(_N==1,0,_n)
    5.         tab dup
    6.         clear
    7. }
```

```
        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      8,245      100.00      100.00
------------+-----------------------------------
      Total |      8,245      100.00
```

```
        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      7,075      100.00      100.00
------------+-----------------------------------
      Total |      7,075      100.00

        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      5,799      100.00      100.00
------------+-----------------------------------
      Total |      5,799      100.00

        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      4,737      100.00      100.00
------------+-----------------------------------
      Total |      4,737      100.00

        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      8,334      100.00      100.00
------------+-----------------------------------
      Total |      8,334      100.00

        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      7,276      100.00      100.00
------------+-----------------------------------
      Total |      7,276      100.00

        dup |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      6,312      100.00      100.00
------------+-----------------------------------
      Total |      6,312      100.00

29.
30. //combine waves into single dataset
31. use round_1_ltd.dta

32. forvalues w=2/$w{
   2. append using round_`w'_ltd.dta
   3. }
  (note: variable dproxyid was str4, now str12 to accommodate using data's
        values)
  (note: variable dspouseid was str4, now str12 to accommodate using data's
        values)
  (label pa1dv2favact already defined)
  (label pa1dv2favact already defined)
  (note: variable dfavact was int, now double to accommodate using data's
        values)
  (label pa1dv2favact already defined)
  (label pa5dfavact already defined)
  (label pa5dfavact already defined)

33.
34. preserve

35.
36. forvalues w=1/$w{
   2. use "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File.dta", clear
   3. gen wave=`w'
   4. rename (r`w'* hh`w'*) (*)
   5. if `w'==1 {
   6. rename (rl`w'* hc`w'*) (*)
   7. }
   8. if `w'!=1 {
   9. rename (pd`w'*) (*)
  10. }
  11. save "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File_new.dta", replace
  12. }
  file E:\nhats\data\NHATS Sensitive\r1_sensitive\NHATS_Round_1_SP_Sen_Dem_File_ne
```

```
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r2_sensitive\NHATS_Round_2_SP_Sen_Dem_File_ne
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r3_sensitive\NHATS_Round_3_SP_Sen_Dem_File_ne
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r4_sensitive\NHATS_Round_4_SP_Sen_Dem_File_ne
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r5_sensitive\NHATS_Round_5_SP_Sen_Dem_File_ne
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r6_sensitive\NHATS_Round_6_SP_Sen_Dem_File_ne
  > w.dta saved
    file E:\nhats\data\NHATS Sensitive\r7_sensitive\NHATS_Round_7_SP_Sen_Dem_File_ne
  > w.dta saved

37.
38. use "${r1s}NHATS_Round_1_SP_Sen_Dem_File_new.dta", clear

39.
40. restore

41.
42. //merge in sensitive data, use r1 as basis, added in cancer vars
43. merge m:1 spid wave using "${r1s}NHATS_Round_1_SP_Sen_Dem_File_new.dta", ///
  >          keepusing(dbirthmth dbirthyr dintvwrage modob yrdob dspousage ///
  >          primarace hisplatno cancerty*) nogen

        Result                        # of obs.
        -----------------------------------------
        not matched                       39,533
            from master                   39,533
            from using                         0

        matched                            8,245
        -----------------------------------------

44.
45. //merge in additional r2 sensitive data
46. merge m:1 spid using "${r2s}NHATS_Round_2_SP_Sen_Dem_File_new.dta", ///
  >          keepusing(dintvwrage dspousage ddeathage mthdied yrdied) nogen
    (label r1dbirthmth already defined)

        Result                        # of obs.
        -----------------------------------------
        not matched                       12,036
            from master                   12,036
            from using                         0

        matched                           35,742
        -----------------------------------------

47.
48. //merge in additional r3 sensitive data
49. merge m:1 spid using "${r3s}NHATS_Round_3_SP_Sen_Dem_File_new.dta", ///
  >          keepusing(dintvwrage dspousage ddeathage mthdied yrdied) nogen
    (label r1dbirthmth already defined)

        Result                        # of obs.
        -----------------------------------------
        not matched                       14,588
            from master                   14,588
            from using                         0

        matched                           33,190
        -----------------------------------------
```

```
50.
51. //merge in additional r4 sensitive data
52. merge m:1 spid using "${r4s}NHATS_Round_4_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(dintvwrage dspousage ddeathage mthdied yrdied) nogen
  (label r1dbirthmth already defined)
  (label r1dbirthyr already defined)

        Result                          # of obs.
        -----------------------------------------
        not matched                        17,774
            from master                    17,774
            from using                          0

        matched                            30,004
        -----------------------------------------

53.
54. //merge in additional r5 sensitive data
55. merge m:1 spid using "${r5s}NHATS_Round_5_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(dintvwrage spageall ddeathage mthdied yrdied) nogen

        Result                          # of obs.
        -----------------------------------------
        not matched                         9,248
            from master                     9,248
            from using                          0

        matched                            38,530
        -----------------------------------------

56.
57. //merge in additional r6 sensitive data
58. merge m:1 spid using "${r6s}NHATS_Round_6_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(dintvwrage spageall ddeathage mthdied yrdied) nogen
  (label r5dbirthmth already defined)
  (label r5dbirthyr already defined)

        Result                          # of obs.
        -----------------------------------------
        not matched                        12,214
            from master                    12,214
            from using                          0

        matched                            35,564
        -----------------------------------------

59.
60. //merge in additional r7 sensitive data
61. merge m:1 spid using "${r7s}NHATS_Round_7_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(dintvwrage spageall ddeathage mthdied yrdied) nogen
  (label r5dbirthmth already defined)
  (label r5dbirthyr already defined)

        Result                          # of obs.
        -----------------------------------------
        not matched                        15,926
            from master                    15,926
            from using                          0

        matched                            31,852
        -----------------------------------------
```

```
62.
63.
64. tempfile nhats

65. save "`nhats'"
   file C:\Users\husaim03\AppData\Local\Temp\9\ST_264314_000002.tmp saved

66.
67.
68. //Going to tracker to rename variables.
69.
70. use "${r7raw}NHATS_Round_7_Tracker_File", clear

71.
72.
73. keep spid yearsample ///
  > w7trfinwgt0 w7tr2011wgt0 r7status r7spstat r7spstatdtmt r7spstatdtyr r7fqstatd
  > tmt ///
  > w6trfinwgt0 w6tr2011wgt0 r6status r6spstat r6spstatdtmt r6spstatdtyr r6fqstatd
  > tmt ///
  > w5trfinwgt0 w5tr2011wgt0 r5status r5spstat r5spstatdtmt r5spstatdtyr r5fqstatd
  > tmt ///
  > w4trfinwgt0                     r4status r4spstat r4spstatdtmt r4spstatdtyr r
  > 4fqstatdtmt ///
  > w3trfinwgt0                     r3status r3spstat r3spstatdtmt r3spstatdtyr r
  > 3fqstatdtmt ///
  > w2trfinwgt0                     r2status r2spstat r2spstatdtmt r2spstatdtyr r
  > 2fqstatdtmt ///
  > w1trfinwgt0                     r1status r1spstat r1spstatdtmt r1spstatdtyr r
  > 1fqstatdt*

74.
75. forvalues w=1/$w{
   2.
76. rename (r`w'*  w`w'*) (*w`w')
   3. }

77.
78. reshape long trfinwgt0w tr2011wgt0w statusw spstatw spstatdtmtw spstatdtyrw fq
  > statdtmtw fqstatdtyrw, i(spid) j(wave)
  (note: j = 1 2 3 4 5 6 7)
  (note: tr2011wgt0w1 not found)
  (note: tr2011wgt0w2 not found)
  (note: fqstatdtyrw2 not found)
  (note: tr2011wgt0w3 not found)
  (note: fqstatdtyrw3 not found)
  (note: tr2011wgt0w4 not found)
  (note: fqstatdtyrw4 not found)
  (note: fqstatdtyrw5 not found)
  (note: fqstatdtyrw6 not found)
  (note: fqstatdtyrw7 not found)

  Data                             wide   ->   long
  -----------------------------------------------------------------------------
  Number of obs.                  19530   ->   136710
  Number of variables                48   ->       11
  j variable (7 values)                  ->   wave
  xij variables:
  trfinwgt0w1 trfinwgt0w2 ... trfinwgt0w7   ->   trfinwgt0w
  tr2011wgt0w1 tr2011wgt0w2 ... tr2011wgt0w7->   tr2011wgt0w
           statusw1 statusw2 ... statusw7   ->   statusw
           spstatw1 spstatw2 ... spstatw7   ->   spstatw
  spstatdtmtw1 spstatdtmtw2 ... spstatdtmtw7->   spstatdtmtw
  spstatdtyrw1 spstatdtyrw2 ... spstatdtyrw7->   spstatdtyrw
  fqstatdtmtw1 fqstatdtmtw2 ... fqstatdtmtw7->   fqstatdtmtw
  fqstatdtyrw1 fqstatdtyrw2 ... fqstatdtyrw7->   fqstatdtyrw
  -----------------------------------------------------------------------------
```

```
79.
80. rename (*w) (*)

81.
82. tempfile tracker

83. save "`tracker'"
   file C:\Users\husaim03\AppData\Local\Temp\9\ST_264314_000003.tmp saved

84.
85. use "`nhats'", clear

86.
87. //3B?
88. //merge in tracker status information
89. merge 1:1 spid wave using "`tracker'"

       Result                           # of obs.
       -----------------------------------------
       not matched                         88,932
           from master                          0  (_merge==1)
           from using                      88,932  (_merge==2)

       matched                             47,778  (_merge==3)
       -----------------------------------------

90.
91. //merge in nsoc tracker information
92. merge m:1 spid using "${r1s}NSOC_Round_1_SP_tracker_file", nogen

       Result                           # of obs.
       -----------------------------------------
       not matched                         78,995
           from master                     78,995
           from using                           0

       matched                             57,715
       -----------------------------------------

93. //drop obs that are in tracker file but not sp file
94. drop if _merge==2
   (88,932 observations deleted)

95. drop _merge

96. save round_1_to_$w.dta, replace
   file round_1_to_7.dta saved

97.
98. //old version of stata
99. forvalues w=1/$w{
   2. clear all
   3. use "E:\nhats\data\NHATS Public\round_`w'\NHATS_Round_`w'_SP_File.dta"
   4. saveold "E:\nhats\data\NHATS Public\round_`w'\NHATS_Round_`w'_SP_File_stata
 > 12.dta", replace version(12)
   5. }
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_1\NHATS_Round_1_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
    note: variable label "R2 F SS DEAF PRIOR OR CURRENT ROUND " contains unicode
          and thus may not display well in Stata 13.
   file E:\nhats\data\NHATS Public\round_2\NHATS_Round_2_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_3\NHATS_Round_3_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_4\NHATS_Round_4_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_5\NHATS_Round_5_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_6\NHATS_Round_6_SP_File_stata12.dta saved
   (saving in Stata 12 format, which can be read by Stata 11 or 12)
   file E:\nhats\data\NHATS Public\round_7\NHATS_Round_7_SP_File_stata12.dta saved
```

```
100
101 ********************************************
102 log close
        name:   <unnamed>
         log:   E:\nhats\nhats_code\NHATS data setup\logs\/1-combine_waves28_Feb_20
  > 19.smcl
     log type:  text
    closed on:  28 Feb 2019, 15:23:20
    ---------------------------------------------------------------------------
```