STaTa®
Statistics/Data Analysis

```
 ------------------------------------------------------------------------------
        name:  <unnamed>
         log:  E:\nhats\nhats_code\NHATS data setup\logs\/1-combine_waves_5_Mar_20
 > 19.smcl
    log type:  text
  opened on:    5 Mar 2019, 14:45:45

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'* ep`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. /*
  > preserve
  >
  > forvalues w=1/$w{
  > use "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File.dta", clear
  > gen wave=`w'
  > rename (r`w'* hh`w'*) (*)
  > if `w'==1 {
  > rename (rl`w'* hc`w'*) (*)
  > }
  > if `w'!=1 {
  > rename (pd`w'*) (*)
  > }
  > save "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File_new.dta", replace
  > }
  >
  > use "${r1s}NHATS_Round_1_SP_Sen_Dem_File_new.dta", clear
```

```
  >
  > restore
  > */
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. save "${r`w's}NHATS_Round_`w'_SP_Sen_Dem_File_new.dta", replace
    5.
37. }
  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

38.
39. restore

40.
41. //merge in sensitive data, use r1 as basis, added in cancer vars
42. merge m:1 spid wave using "${r1s}NHATS_Round_1_SP_Sen_Dem_File_new.dta", ///
  >          keepusing(r1dbirthmth r1dbirthyr r1dintvwrage hh1modob hh1yrdob hh1dsp
  > ousage ///
  >          rl1primarace rl1hisplatno hc1cancerty*) nogen

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

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

43.
44. //merge in additional r2 sensitive data
45. merge m:1 spid using "${r2s}NHATS_Round_2_SP_Sen_Dem_File_new.dta", ///
  >          keepusing(r2dintvwrage hh2dspousage r2ddeathage pd2mthdied pd2yrdied)
  > nogen
  (label r1dbirthmth already defined)

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

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

```
46.
47. //merge in additional r3 sensitive data
48. merge m:1 spid using "${r3s}NHATS_Round_3_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(r3dintvwrage hh3dspousage r3ddeathage pd3mthdied pd3yrdied)
  > nogen
  (label r1dbirthmth already defined)

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

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

49.
50. //merge in additional r4 sensitive data
51. merge m:1 spid using "${r4s}NHATS_Round_4_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(r4dintvwrage hh4dspousage r4ddeathage pd4mthdied pd4yrdied)
  > 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
        -----------------------------------------

52.
53. //merge in additional r5 sensitive data
54. merge m:1 spid using "${r5s}NHATS_Round_5_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(r5dintvwrage hh5spageall r5ddeathage pd5mthdied pd5yrdied) n
  > ogen

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

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

55.
56. //merge in additional r6 sensitive data
57. merge m:1 spid using "${r6s}NHATS_Round_6_SP_Sen_Dem_File_new.dta", ///
  >         keepusing(r6dintvwrage hh6spageall r6ddeathage pd6mthdied pd6yrdied) n
  > ogen
  (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
        -----------------------------------------
```

```
58.
59. //merge in additional r7 sensitive data
60. merge m:1 spid using "${r7s}NHATS_Round_7_SP_Sen_Dem_File_new.dta", ///
  >           keepusing(r7dintvwrage hh7spageall r7ddeathage pd7mthdied pd7yrdied) n
  > ogen
  (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
        -----------------------------------------

61.
62. /*
  > tempfile nhats
  > save "`nhats'"
  >
  >
  > //Going to tracker to rename variables.
  >
  > use "${r7raw}NHATS_Round_7_Tracker_File", clear
  >
  >
  > keep spid yearsample ///
  > w7trfinwgt0 w7tr2011wgt0 r7status r7spstat r7spstatdtmt r7spstatdtyr r7fqstatd
  > tmt ///
  > w6trfinwgt0 w6tr2011wgt0 r6status r6spstat r6spstatdtmt r6spstatdtyr r6fqstatd
  > tmt ///
  > w5trfinwgt0 w5tr2011wgt0 r5status r5spstat r5spstatdtmt r5spstatdtyr r5fqstatd
  > tmt ///
  > w4trfinwgt0                     r4status r4spstat r4spstatdtmt r4spstatdtyr r
  > 4fqstatdtmt ///
  > w3trfinwgt0                     r3status r3spstat r3spstatdtmt r3spstatdtyr r
  > 3fqstatdtmt ///
  > w2trfinwgt0                     r2status r2spstat r2spstatdtmt r2spstatdtyr r
  > 2fqstatdtmt ///
  > w1trfinwgt0                     r1status r1spstat r1spstatdtmt r1spstatdtyr r
  > 1fqstatdt*
  >
  > forvalues w=1/$w{
  >
  > rename (r`w'*  w`w'*) (*`w`w')
  > }
  >
  > reshape long trfinwgt0w tr2011wgt0w statusw spstatw spstatdtmtw spstatdtyrw fq
  > statdtmtw fqstatdtyrw, i(spid) j(wave)
  >
  > rename (*w) (*)
  >
  > tempfile tracker
  > save "`tracker'"
  >
  > use "`nhats'", clear
  >
  > //3B?
  > //merge in tracker status information
  > merge 1:1 spid wave using "`tracker'"
  > */
```

```
63.
64. merge m:1 spid using "${r7raw}NHATS_Round_7_Tracker_File", keepusing( yearsamp
  > le ///
  > 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*)

        Result                        # of obs.
        -----------------------------------------
        not matched                        7,103
            from master                        0  (_merge==1)
            from using                     7,103  (_merge==2)

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

65.
66. gen trfinwgt0=.
  (54,881 missing values generated)

67. gen tr2011wgt0=.
  (54,881 missing values generated)

68. forvalues w=1/$w{
    2. replace trfinwgt0= w`w'trfinwgt0 if wave==`w'
    3. capture replace tr2011wgt0 = w`w'tr2011wgt0 if wave==`w'
    4. capture drop w`w'trfinwgt0 w`w'tr2011wgt0
    5. }
  (8,245 real changes made)
  (7,075 real changes made)
  (5,799 real changes made)
  (4,737 real changes made)
  (8,334 real changes made)
  (7,276 real changes made)
  (6,312 real changes made)

69.
70.
71. //merge in nsoc tracker information
72. merge m:1 spid using "${r1s}NSOC_Round_1_SP_tracker_file", nogen

        Result                        # of obs.
        -----------------------------------------
        not matched                       17,969
            from master                   17,969
            from using                         0

        matched                           36,912
        -----------------------------------------
```

```
73. //drop obs that are in tracker file but not sp file
74. drop if _merge==2
   (7,103 observations deleted)

75. drop _merge

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

77.
78. //old version of stata
79. 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

80.
81. ********************************************
82. log close
        name:  <unnamed>
         log:  E:\nhats\nhats_code\NHATS data setup\logs\/1-combine_waves_5_Mar_20
  > 19.smcl
    log type:  text
   closed on:   5 Mar 2019, 14:46:12
   ----------------------------------------------------------------------------
```