



```
-----
      name: <unnamed>
      log:  E:\nhats\nhats_code\NHATS data setup\logs\1-combine_waves_21_Mar_2
> 019.smcl
      log type:  text
      opened on:  21 Mar 2019, 09:53:28
```

```
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 1 into a single file
>
> Data format is multiple observations per subject, one for each round
> */
4 . *****
5 .
6 . forvalues w=1/$w {
7 .   use "${r`w'raw}\NHATS_Round_`w'_SP_File.dta"
8 .   3. //check to make sure sample ids are unique
9 .   sort spid
10.  4. quietly by spid: gen dup = cond(_N=1,0,_n)
11.  5. tab dup
12.  6. capture gen wave=`w'
13.  7. la var wave "Survey wave"
14.  8. save round_`w'_1.dta, replace
15.  9. clear
16. 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{
12.   use round_`w'_1.dta
13.   if `w'!=1 local pd pd*
14.   //keep selected variables only
15.   local keepallwaves spid wave r`w'dresid w`w'varunit w`w'anfinwgt0 w`w'varstrat
16.   ///
17.   mo* r`w'd2intvrange hh`w'martlststat ///
18.   ip`w'cmedicaid ip`w'mgapmedsp ip`w'nginsnurs ip`w'covmedcad ip`w'covtr
19.   icar ///
20.   hh* hc* ss* pc* cp* cg* ha* sc* mc* sd* pa* hw* ///
21.   is`w'* ht`w'placedesc fl`w'* ir* cm* ew* hp* sn* dt* `pd' gr* wa* r`w'
22.   dorigwksc ///
23.   r`w'dnhatswksc r`w'dnhatsgrav r`w'dnhatsgrb wb* ho* cs*
24.   5.
25.   if `w'==1 {
26.     keep `keepallwaves' r`w'dgender rl`w'dracehisp rl`w'spkothlan rl`w'condspan
27.     h el`w'higstschl ///
28.     ia`w'* re`w'resistrct reldcensdiv valserarmfor
29.     7.
30.     rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
31.     `w'* ///
32.     sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
33.     p`w'* ///
34.     sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* rl`w'* el`w'* ia`w'* re`w'* v
35.     a`w'*) ///
36.     (*)
37.     8. destring dfavact, replace
38.     9. }
39.     10.
40.   if `w'==2 {
41.     11. keep `keepallwaves' re2intplace re2newstrct re2spadrsnew re2dresistrct ///
42.     re2dadrscorr re2dcensdiv ip2nginslast ep2eoltalk ep2poweratty ep2livng
43.     > will lm*
44.     12.
45.     rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
46.     `w'* ///
47.     sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
48.     p`w'* ///
49.     sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* pd`w'* ep`w'* lm`w'*)
50.     ///
51.     (*)
52.     13. }
53.     14.
54.   if `w'==3 {
55.     15. keep `keepallwaves' re3intplace re3newstrct re3spadrsnew re3dresistrct ///
56.     re3dcensdiv ip3nginslast ia* lm*
57.     16.
58.     rename (r`w'* w`w'* mo`w'* hh`w'* ip`w'* hc`w'* ss`w'* pc`w'* cp`w'* cg`w'* ha
59.     `w'* ///
60.     sc`w'* mc`w'* sd`w'* pa`w'* hw`w'* is`w'* ht`w'* fl`w'* ir`w'* cm`w'* ew`w'* h
61.     p`w'* ///
62.     sn`w'* dt`w'* gr`w'* wa`w'* wb`w'* ho`w'* cs`w'* re`w'* ia`w'* pd`w'* lm`w'*)
63.     ///
64.     (*)
65.     17. }
66.     18. if `w'==4 {
67.       19. keep `keepallwaves' re4intplace re4newstrct re4spadrsnew re4dresistrct ///
68.       re4dcensdiv ip4nginslast lm*
69.     }
70.   }

```

```

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'* lm`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 lm*
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'* lm`w'*) ///
> (*)
25. }
26. if `w'==6 {
27. keep `keepallwaves' re6intplace re6newstrct re6spadrsnew re6dresistrct ///
> re6dcensdiv ip6nginslast w6an2011wgt0 lm*
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'* lm`w'*) ///
> (*)
29. }
30. if `w'==7 {
31. keep `keepallwaves' re7intplace re7newstrct re7spadrsnew re7dresistrct ///
> re7dcensdiv ip7nginslast ia`w'* w7an2011wgt0 lm*
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'* lm`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 paldiv2favact already defined)
    (label paldiv2favact already defined)
    (note: variable dfavact was int, now double to accommodate using data's
    values)
    (label paldiv2favact 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. 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 r1dintvwage hhlmodob hhlyrdob hhl dsp
> ousage ///
> r1lprimarace r1lhisplatno hclcancerty*) 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(r2dintvwage 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(r3dintvwage 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 h
> c4cancerty*) 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 hc
> 5cancerty*) nogen

```

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 hc
> 6cancerty*) 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

```

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 hc
> 7cancerty*) 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

```

61.
62. //3B?
63. //merge in tracker status information
64.
65.
66. merge m:1 spid using "${r7raw}NHATS_Round_7_Tracker_File", keepusing( yearsamp
> le ///
> w7trfinwgt0 w7tr2011wgt0 r7status r7spstat r7spstatdmt r7spstatdtyr r7fqstatd
> tmt ///
> w6trfinwgt0 w6tr2011wgt0 r6status r6spstat r6spstatdmt r6spstatdtyr r6fqstatd
> tmt ///
> w5trfinwgt0 w5tr2011wgt0 r5status r5spstat r5spstatdmt r5spstatdtyr r5fqstatd
> tmt ///
> w4trfinwgt0 r4status r4spstat r4spstatdmt r4spstatdtyr r
> 4fqstatdmt ///
> w3trfinwgt0 r3status r3spstat r3spstatdmt r3spstatdtyr r
> 3fqstatdmt ///
> w2trfinwgt0 r2status r2spstat r2spstatdmt r2spstatdtyr r
> 2fqstatdmt ///
> w1trfinwgt0 r1status r1spstat r1spstatdmt r1spstatdtyr r
> 1fqstatdmt*)

```

Result	# of obs.	
not matched	7,103	
from master	0	(_merge==1)
from using	7,103	(_merge==2)
matched	47,778	(_merge==3)

```

67.
68. gen trfinwgt0=.
   (54,881 missing values generated)
69. gen tr2011wgt0=.
   (54,881 missing values generated)
70. 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)

```

```

71.
72.
73. //merge in nsoc tracker information
74. 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

```

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

77. drop _merge

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

79.
80. //old version of stata
81. 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

82.
83. *****
84. log close
    name: <unnamed>
    log: E:\nhats\nhats_code\NHATS data setup\logs\1-combine_waves_21_Mar_2
> 019.smcl
    log type: text
    closed on: 21 Mar 2019, 09:53:53
-----

```