

(8,245 real changes made)

```
name: <unnamed>
        log: E:\nhats\nhats code\NHATS data setup\logs\/3 nhats cleaning 17 Apr
  > 2019.smcl
   log type: text
   opened on: 17 Apr 2019, 15:37:03
1 .
3.
 . cd "${work}"
 E:\nhats\data\NHATS working data
 **********
8 . use round_1_${w}_cleanv1.dta, clear
11. tab wave, missing
 Survey wave |
                   Freq.
                             Percent
           1 | 8,245 17.26 17.26

2 | 7,075 14.81 32.06

3 | 5,799 12.14 44.20

4 | 4,737 9.91 54.12

5 | 8,334 17.44 71.56

6 | 7,276 15.23 86.79

7 | 6,312 13.21 100.00
       Total | 47,778 100.00
13. *************
14. ************
15. //self reported health status/conditions
16. **************
17. *************
18. gen srh=.
  (47,778 missing values generated)
19. forvalues w=1/$w{}
    2. tab health if wave==`w', missing
    3. replace srh=health if wave==`w'
  R1 HC1 OVERALL |
         HEALTH |
       CONDITION | Freq. Percent Cum.
  _____
     -9 Missing | 168 2.04 2.04

-8 DK | 6 0.07 2.11

Inapplicable | 468 5.68 7.79

1 EXCELLENT | 938 11.38 19.16

2 VERY GOOD | 2,029 24.61 43.77

3 GOOD | 2,426 29.42 73.20

4 FAIR | 1,607 19.49 92.69

5 POOR | 603 7.31 100.00
  -1 Inapplicable |
      Total | 8,245 100.00
```

R1 HC1 OVERALL HEALTH CONDITION	 	Percent	Cum.
-9 Missing -8 DK -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	829 698 1,709 2,000	2.69 0.08 11.72 9.87 24.16 28.27 17.24 5.98	2.69 2.77 14.49 24.35 48.51 76.78 94.02 100.00
Total (7,075 real change	7,075 ges made)	100.00	
R1 HC1 OVERALL HEALTH CONDITION	 Freq.	Percent	Cum.
-9 Missing -8 DK -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	736 522 1,411 1,658	3.09 0.03 12.69 9.00 24.33 28.59 16.99 5.28	3.09 3.12 15.81 24.81 49.15 77.74 94.72 100.00
Total (5,799 real change	+ 5,799 ges made)	100.00	
R1 HC1 OVERALL HEALTH CONDITION	 Freq.	Percent	Cum.
-9 Missing -8 DK -7 RF -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	156 3 1 544 406 1,225 1,379 773 250	3.29 0.06 0.02 11.48 8.57 25.86 29.11 16.32 5.28	3.29 3.36 3.38 14.86 23.43 49.29 78.40 94.72 100.00
Total (4,737 real change	•	100.00	
R1 HC1 OVERALL HEALTH CONDITION	 Freq.	Percent	Cum.
-9 Missing -8 DK -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	179 8 579 855 2,116 2,593 1,550 454	2.15 0.10 6.95 10.26 25.39 31.11 18.60 5.45	2.15 2.24 9.19 19.45 44.84 75.95 94.55
Total (8,334 real change	8,334 ges made)	100.00	

R1 HC1 OVERALL HEALTH CONDITION	 Freq.	Percent	Cum.
-9 Missing -8 DK -7 RF -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	177 3 1 689 688 1,867 2,225 1,275 351	2.43 0.04 0.01 9.47 9.46 25.66 30.58 17.52 4.82	2.43 2.47 2.49 11.96 21.41 47.07 77.65 95.18 100.00
Total	7,276	100.00	

(7,276 real changes made)

R1 HC1 OVERALL HEALTH CONDITION	 Freq.	Percent	Cum.
-9 Missing -8 DK -1 Inapplicable 1 EXCELLENT 2 VERY GOOD 3 GOOD 4 FAIR 5 POOR	158 3 588 550 1 1,636 2,013 1,040 324	2.50 0.05 9.32 8.71 25.92 31.89 16.48 5.13	2.50 2.55 11.87 20.58 46.50 78.39 94.87 100.00
Total (6,312 real char	6,312 nges made)	100.00	

20. replace srh=. if inlist(srh,-9,-1)
 (5,640 real changes made, 5,640 to missing)

- 21.
 22. la var srh "Self reported health, categorical"
- 23. la def srh 1 "Excellent" 2 "Very good" 3 "Good" 4 "Fair" 5 "Poor"
- 24. la val srh srh
- 25. tab srh if ivw_type==1, missing

Self reported health, categorical	 Freq.	Percent	Cum.
-8 -7 Excellent Very good Good Fair Poor	31 2 4,657 11,993 14,294 8,450 2,711	0.07 0.00 11.05 28.46 33.92 20.05 6.43	0.07 0.08 11.13 39.59 73.51 93.57
Total	42,138	100.00	

Self reported health=fai r/poor	-8			categorical Very good	- Good	Total
-8 -7	31	0	0	0	0	31
- / 0	0	0	4,657	11,993	14,294	30,944
1	0	0	0	0	0	11,161 5,640
	 					+
Total	31	2	4,657	11,993	14,294	47,778

Self reported health=fai r/poor	•	reported he categorical		Total
-8 -7 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2,711 0	0 0 0 0 5,640	31 2 30,944 11,161 5,640
Total	8,450	2 , 711	5,640	47,778

```
34. *************
35. //Self-Report Disease
37. //Round 1 - ever told you had xx
38. //Round 2 - since the last interview, new condition?
39. /*
 > 1 heart attack
 > 2 heart disease
 > 3 high blood pressure
 > 4 arthritis
 > 5 osteoporosis
 > 6 diabetes
 > 7 lung disease
 > 8 stroke
 > 9 dementia
 > 10 cancer
 > create two sets of indicator variables for waves 2 and later
 > sr disease ever = 1 if ever report having the disease (only this variable in w
 > ave 1)
 > sr_disease_new = 1 if newly reported the disease this wave
```

```
40.
41. //heart attack / ami, asked both waves, for Wave 1 ask ever had, wave 2 ask in
     last year
42. //same questions for stroke, cancer
43.
44. capture program drop disease
45. program define disease
                args dis num
    1.
    2.
             gen sr_`dis'_raw=.
    forvalues w=1/$w{
46.
                          replace sr_`dis'_raw=1 if disescn`num'==1 & wave==`w'
replace sr_`dis'_raw=0 if disescn`num'==2 & wave==`w'
replace sr_`dis'_raw=-7 if disescn`num'==-7 & wave==`w'
    4.
    5.
    6.
                          replace sr `dis' raw=-8 if disescn`num'==-8 & wave==`w'
    7.
    8.
    9.
                 //create two new variables from this...
             gen sr_`dis'_ever=sr_`dis'_raw
  replace sr_`dis'_ever=. if inrange(wave, 2, $w) & sr_`dis'_raw==0 /
47.
   10.
  > /set to missing if report no new wave
                replace sr_`dis'_ever=-7 if sr_`dis'_raw == -7 replace sr_`dis'_ever=-8 if sr_`dis'_raw == -8
   11.
   12.
   13.
48.
              sort spid wave
   14.
                by spid (wave): carryforward sr `dis' ever if ivw type==1 , replace
   15.
  replace sr_`dis'_ever = sr_`dis'_raw if inrange(wave,2,$w) & sr_`dis'_
> ever == . & sr_`dis'_raw != .
   16.
50.
             gen sr_`dis'_new=sr_`dis'_raw if inrange(wave,2,$w)
   17.
51.
             end
53. //now run programs for specific disease variables
54. disease ami 1
  (47,778 missing values generated)
  (1,164 real changes made)
  (6,437 real changes made)
  (0 real changes made)
  (8 real changes made)
  (178 real changes made)
  (5,875 real changes made)
  (0 real changes made)
  (3 real changes made)
  (141 real changes made)
  (4,735 real changes made)
  (1 real change made)
  (7 real changes made)
  (114 real changes made)
  (3,917 real changes made)
  (0 real changes made)
  (6 real changes made)
  (622 real changes made)
  (6,936 real changes made)
  (0 real changes made)
  (18 real changes made)
  (160 real changes made)
  (6,243 real changes made)
  (0 real changes made)
  (7 real changes made)
  (150 real changes made)
  (5,407 real changes made)
  (0 real changes made)
  (9 real changes made)
  (5,640 missing values generated)
  (33,113 real changes made, 33,113 to missing)
  (0 real changes made)
  (0 real changes made)
  sr_ami_ever: (24599 real changes made)
  (8,514 real changes made)
```

```
(13,249 missing values generated)
55. disease stroke 8
  (47,778 missing values generated)
  (892 real changes made)
  (6,709 real changes made)
  (0 real changes made)
  (8 real changes made)
  (178 real changes made)
  (5,871 real changes made)
  (0 real changes made)
  (7 real changes made)
  (151 real changes made)
  (4,727 real changes made)
  (1 real change made)
  (5 real changes made)
  (133 real changes made)
  (3,897 real changes made)
  (0 real changes made)
  (7 real changes made)
  (476 real changes made)
  (7,083 real changes made)
  (0 real changes made)
  (17 real changes made)
  (165 real changes made)
  (6,233 real changes made)
  (0 real changes made)
  (12 real changes made)
  (158 real changes made)
  (5,404 real changes made)
  (0 real changes made)
  (4 real changes made)
  (5,640 missing values generated)
  (33,215 real changes made, 33,215 to missing)
  (0 real changes made)
  (0 real changes made)
  sr_stroke_ever: (24243 real changes made)
  (8,972 \text{ real changes made})
  (13,249 missing values generated)
56. disease cancer 10
  (47,778 missing values generated)
  (1,953 real changes made)
  (5,653 real changes made)
  (1 real change made)
  (2 real changes made)
  (355 real changes made)
  (5,694 real changes made)
  (0 real changes made)
  (7 real changes made)
  (275 real changes made)
  (4,602 real changes made)
  (1 real change made)
  (6 real changes made)
  (240 real changes made)
  (3,792 real changes made)
  (0 real changes made)
  (5 real changes made)
  (1,183 real changes made)
  (6,386 real changes made)
  (1 real change made)
  (6 real changes made)
  (375 real changes made)
  (6,031 real changes made)
  (0 real changes made)
  (4 real changes made)
  (369 real changes made)
  (5,190 real changes made)
  (0 real changes made)
  (7 real changes made)
  (5,640 missing values generated)
  (31,695 real changes made, 31,695 to missing)
```

```
(0 real changes made)
  (0 real changes made)
  sr_cancer_ever: (24273 real changes made)
  (7,422 \text{ real changes made})
  (13,249 missing values generated)
58. la var sr ami raw "Self report Heart Attack, Raw"
59. la var sr_ami_ever "Ever Self report Heart Attack"
60. la var sr ami new "Self report Heart Attack since prev year"
61. la var sr stroke raw "Self report Stroke, Raw"
62. la var sr stroke ever "Ever Self report Stroke"
63. la var sr_stroke_new "Self report Stroke since prev year"
64. la var sr cancer raw "Self report Cancer, Raw"
65. la var sr cancer ever "Ever Self report Cancer"
66. la var sr cancer new "Self report Cancer since prev year"
67.
68. notes sr ami raw: disescn1
69. notes sr_ami_raw: Had a heart attack or myocardial infarction (self-report).
70. notes sr stroke raw: disescn8
71. notes sr stroke raw: Had a stroke (self-report).
72. notes sr_cancer_raw: disescn10
73. notes sr cancer raw: Had cancer (self-report).
75. notes sr_ami_ever: sr_ami_raw
76. notes sr ami ever: If ever had a heart attack or myocardial infarction (self-r
77. notes sr stroke ever: sr stroke raw
78. notes sr stroke ever: If ever had a stroke (self-report).
79. notes sr_cancer_ever: sr_cancer_raw
80. notes sr cancer ever: If ever had cancer (self-report).
82. notes sr_ami_new: sr_ami_raw
83. notes sr_ami_new: If heart attack or myocardial infarction within last year (s
 > elf-report).
84. notes sr stroke new: sr stroke raw
```

```
85. notes sr stroke new: If stroke within last year (self-report).
86. notes sr cancer new: sr cancer raw
87. notes sr_cancer_new: If cancer found within last year (self-report).
88.
89. //same question pattern, different variable name though, for hip fracture
90. gen sr hip raw=.
  (47,778 missing values generated)
91. forvalues w=1/$w{}
               replace sr_hip_raw=1 if brokebon1==1 & wave==`w'
    3.
               replace sr_hip_raw=0 if brokebon1==2 & wave==`w'
replace sr_hip_raw = -7 if brokebon1==-7 & wave==`w'
    4.
    5.
               replace sr hip raw = -8 if brokebon1==-8 & wave==`w'
    6. }
  (379 real changes made)
  (7,226 real changes made)
  (0 real changes made)
  (4 real changes made)
  (78 real changes made)
  (5,976 real changes made)
  (0 real changes made)
  (2 real changes made)
  (86 real changes made)
  (4,795 real changes made)
  (1 real change made)
  (2 real changes made)
  (57 real changes made)
  (3,979 real changes made)
  (0 real changes made)
  (1 real change made)
  (223 real changes made)
  (7,350 real changes made)
  (0 real changes made)
  (3 real changes made)
  (87 real changes made)
  (6,320 real changes made)
  (0 real changes made)
  (3 real changes made)
  (67 real changes made)
  (5,499 real changes made)
  (0 real changes made)
  (0 real changes made)
92. //create two new variables from this...
93. gen sr hip ever=sr hip raw
  (5,640 missing values generated)
94. replace sr_hip_ever=. if (inrange(wave,2,\$w)) & sr_hip_raw==0 //set to missing > if report no new wave
  (33,919 real changes made, 33,919 to missing)
96. sort spid wave
97. by spid (wave): carryforward sr hip ever if ivw type==1, replace
 sr hip ever: (24362 real changes made)
```

```
98.
99. replace sr hip ever = sr hip raw if inrange(wave,2,$w) & sr hip ever == . & sr
 > _hip_raw != .
 (9,557 real changes made)
101 gen sr_hip_new=sr_hip_raw if inrange(wave,2,$w)
 (13,249 missing values generated)
102 la var sr_hip_raw "Self report Hip Fracture, Raw"
103 la var sr hip ever "Ever Self report Hip Fracture (since age 50)"
104 la var sr hip new "Self report Hip Fracture since prev year"
106 notes sr hip raw: brokebon1
107 notes sr hip raw: Had broken or fractured hip (self-report).
108 notes sr hip ever: sr hip raw
109 notes sr hip ever: Had ever broken or fractured hip (self-report).
110 notes sr hip new: sr hip raw
111 notes sr hip new: Had hip fracture since prev interview (self-report).
113 foreach x in sr ami raw sr stroke raw sr cancer raw sr ami ever sr stroke ever
 > sr_ami_new sr_stroke_new sr_cancer_new sr_cancer_ever sr_hip_raw sr_hip_ever s
 > r_hip_new{

    notes `x': Located in NHATS Setup, under Part 4.
    notes `x': Updated: 04/15/19-MH

114
115 foreach dis in ami stroke cancer hip{
   2. tab sr_`dis'_raw wave if ivw_type==1, missing
3. tab sr_`dis'_ever wave if ivw_type==1, missing
4. tab sr_`dis'_new wave if ivw_type==1, missing
      Self
     report
     Heart
    Attack,
                                Survey wave
                         2 3 4
               1
                                                        5 | Total
      Raw I
 ______
              8
                         3 7 6
0 1 0
        -8 |
                                                       18 |
         -7 I
                                                              0 1
        0 | 6,437 5,875 4,735 3,917 6,936 | 39,550
1 | 1,164 178 141 114 622 | 2,529
  ______
      Total | 7,609 6,056 4,884 4,037 7,576 | 42,138
      Self |
     report
     Heart
    Attack,
                  Survey wave
     Raw |
                 6 7 | Total
              7 9 |
0 0 |
        -8 |
         -7 I
        -7 | 0 0 | 1
0 | 6,243 5,407 | 39,550
1 | 160 150 | 2,529
```

Total | 6,410 5,566 | 42,138

Total | 7,609 6,056 4,884 4,037 7,576 | 42,138

Self report Stroke, Raw	 Survey	wave 7	Total			
-8 -7 0 1	0	4 0 5,404 158	1 39,924			
Total	6,410	5,566	42,138			
Ever Self report Stroke	1	2	Survey wave	4	5	Total
-8 -7 0 1	0	13 0 5,262 781	12 1 4,186 685	14 1 3,423 599	24 1 6,633 918	3 36,555
Total	+ 7 , 609	6 , 056	4,884	4,037	7 , 576	42,138
Ever Self report Stroke	Survey		Total			
-8 -7 0 1	0	24 0 4,788 754	3 36,555			
Total	+ 6,410	5,566	42,138			
Self report Stroke since prev year	 	2	Survey wave	4	5	Total
-8 -7 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 5,871 178 0	5 1 4,727 151 0	7 0 3,897 133 0	17 0 7,083 476	1 33,215
Total	7 , 609	6,056	4,884	4,037	7,576	42,138
Self report Stroke since prev year	 Survey	wave 7	Total			
-8 -7 0 1	12 0 6,233 165 0	4 0 5,404 158 0	1 33,215			
Total	+6,410	5,566	42,138			

Total | 7,609 6,056 4,884 4,037 7,576 | 42,138

Self report Cancer since prev year	 	wave 7	Total			
-8 -7 0 1		7 0 5,190 369 0	31,695 2,797			
Total	6,410	5 , 566	•			
Self report Hip Fracture, Raw	 	2	Survey wave 3	4	5	Total
-8 -7 0 1	0 7 , 226	2 0 5,976 78	2 1 4,795 86	1 0 3,979 57	3 0 7,350 223	
Total	7,609	6,056	4,884	4,037	7,576	42,138
Self report Hip Fracture, Raw	 Survey	wave 7	Total			
-8 -7 0 1	0	0 0 5 , 499 67	1			
Total	6,410	5 , 566	42,138			
Ever Self report Hip Fracture (since age 50)	 	2	Survey wave 3	4	5	Total
-8 -7 0 1	4 0 7,226 379	5 0 5,706 345	6 1 4,556 321	3 1 3,751 282	6 1 7,134 435	34 3 39,564 2,537
Total	7,609	6,056	4,884	4,037	7,576	42,138
Ever Self report Hip Fracture (since age 50)	 Survey 6	wave 7	Total			
-8 -7 0 1	7 7 0 5,993 410	3 0 5,198 365	34 3 39,564 2,537			
Total	6,410	5,566	42,138			

10.

11. 12.

127

```
Self
 report Hip
   Fracture
 since prev
                                Survey wave
                 1
                        2 3
                                                          5 | Total
    year |
    -------
        -8 | 0 2 2 1 3 | 11

-7 | 0 0 1 0 0 1

0 | 0 5,976 4,795 3,979 7,350 | 33,919

1 | 0 78 86 57 223 | 598

. | 7,609 0 0 0 0 7,609
      Total | 7,609 6,056 4,884 4,037 7,576 | 42,138
      Self |
 report Hip |
   Fracture
 since prev |
                Survey wave
                 6
                             7 | Total
      year |
         -8 | 3 0 | 11

-7 | 0 0 1 1

0 | 6,320 5,499 | 33,919

1 | 87 67 | 598

. | 0 0 | 7,609
        -7 I
    Total | 6,410 5,566 | 42,138
116
118 //Many diseases asked 1st wave, then only if report no, asked again 2nd wave
119 //wave 2,3=7 if report yes in wave 1
120 //use a program over several diseases since pattern is the same
122 la def sr prev rept 0 "No" 1 "Yes" 7 "Previously reported"
124 capture program drop prev_report
125 program define prev report
           args dis num
         gen sr_`dis'_raw=.
126
                   forvalues w=1/$w{
                            replace sr `dis' raw=1 if disescn`num'==1 & wave==`
   4.
                            replace sr `dis' raw=0 if disescn`num'==2 & wave==`
   5.
 > w'
   6.
                           replace sr_`dis'_raw=7 if disescn`num'==7 & wave==`
 > w'
   7.
                            replace sr `dis' raw=-7 if disescn`num'==-7 & wave=
 > = `w'
                            replace sr `dis' raw=-8 if disescn`num'==-8 & wave=
   8.
 > = `w'
  9.
```

la val sr `dis'_raw sr_prev_rept

tab sr dis' raw wave if ivw type==1, missing

```
gen sr `dis' ever = 1 if inlist(sr `dis' raw,1,7) //if prev or curr re
128
  > port yes
                 replace sr_`dis'_ever = 0 if sr_`dis'_raw==0
replace sr_`dis'_ever = -7 if sr_`dis'_raw==-7
replace sr_`dis'_ever = -8 if sr_`dis'_raw==-8
tab sr_`dis'_ever sr_`dis'_raw, missing
tab sr_`dis'_ever wave if ivw_type==1, missing
   13.
   14.
   15.
   16.
   17.
   18.
             gen sr_`dis'_new=sr_`dis'_raw if inrange(wave,2,$w)
   replace sr_`dis'_new=0 if sr_`dis'_raw==7
   tab sr_`dis'_new if inrange(wave,2,$w) & ivw_type==1, missing
129
   19.
   20.
   21.
130
              end
131
132 //now run programs for specific disease variables
133 prev report heart dis 2
  (47,778 \text{ missing values generated})
  (1,411 real changes made)
  (6,182 real changes made)
  (0 real changes made)
  (0 real changes made)
  (16 real changes made)
  (187 real changes made)
  (4,757 real changes made)
  (1,107 real changes made)
  (0 real changes made)
  (5 real changes made)
  (138 real changes made)
  (3,749 real changes made)
  (990 real changes made)
  (1 real change made)
  (6 real changes made)
  (94 real changes made)
  (3,022 real changes made)
  (917 real changes made)
  (0 real changes made)
  (4 real changes made)
  (724 real changes made)
  (5,963 real changes made)
  (868 real changes made)
  (0 real changes made)
  (21 real changes made)
  (160 real changes made)
  (4,932 real changes made)
  (1,303 real changes made)
  (0 real changes made)
  (15 real changes made)
  (130 real changes made)
  (4,240 real changes made)
  (1,186 real changes made)
  (0 real changes made)
  (10 real changes made)
                                                Survey wave
     sr heart dis raw | Survey wave 2
                                                                3 4 | Total
     -8 | 16 5 6 4 | 77
-7 | 0 0 1 0 1
No | 6,182 4,757 3,749 3,022 | 32,845
Yes | 1,411 187 138 94 | 2,844
Previously reported | 0 1,107 990 917 | 6,371
```

Total | 7,609 6,056 4,884 4,037 | 42,138

sr_heart_dis_raw	 5	Survey wave 6	7	Total
-8 -7 No Yes Previously reported	21 0 5,963 724 868	15 0 4,932 160 1,303	10 0 4,240 130 1,186	77 1 32,845 2,844 6,371
Total	7,576	6,410	5,566	42,138

(38,563 missing values generated) (32,845 real changes made) (1 real change made) (77 real changes made)

		raw	heart dis r	sr		sr heart d
Total	Previousl	Yes	No		–8 +	_is_ever
77	0	0	0	0	,	-8
1	0	0	0	1	0	-7
32,845	0	0	32,845	0	0	0
9,215	6 , 371	2,844	0	0	0	1
5,640	0	0	0	0	0	•
47,778	6,371	2,844	32,845	1	+ 77	Total

sr_heart_d is_ever	sr_heart_d is_raw .	Total
-8 -7 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02,010
Total	5,640	47,778

sr_heart_d is_ever	1	2	Survey wave 3	4	5	Total
-8 -7 0 1	16 0 6,182 1,411	5 0 4,757 1,294	6 1 3,749 1,128	4 0 3,022 1,011	21 0 5,963 1,592	77 1 32,845 9,215
Total	7 , 609	6 , 056	4,884	4,037	7 , 576	42,138

sr_heart_d is_ever	Survey 6	wave 7	Total
-8 -7 0 1	15 0 4,932 1,463	10 0 4,240 1,316	77 77 32,845 9,215
Total	 6,410	5 , 566	42,138

(13,249 missing values generated) (6,371 real changes made)

```
134 prev report htn 3
```

(47,778 missing values generated)

(5,108 real changes made)

(2,491 real changes made)

(0 real changes made)

(0 real changes made)

(10 real changes made)

(146 real changes made)

(1,840 real changes made)

(4,066 real changes made)

(0 real changes made)

(4 real changes made)

(124 real changes made)

(1,359 real changes made)

(3,394 real changes made)

(0 real changes made)

(7 real changes made) (76 real changes made)

(1,042 real changes made)

(2,916 real changes made)

(0 real changes made)

(3 real changes made)

(2,674 real changes made)

(2,221 real changes made) (2,671 real changes made)

(0 real changes made)

(10 real changes made)

(111 real changes made)

(1,786 real changes made)

(4,510 real changes made)

(0 real changes made)

(3 real changes made)

(92 real changes made)

(1,481 real changes made)

(3,987 real changes made)

(0 real changes made)

(6 real changes made)

		Surve	y wave		
sr_htn_raw	1	2	3	4	Total
-8 No Yes Previously reported	10 2,491 5,108 0	4 1,840 146 4,066	7 1,359 124 3,394	3 1,042 76 2,916	43 12,220 8,331 21,544
Total	7,609	6 , 056	4,884	4,037	42,138

	Survey wave				
sr_htn_raw	5	6	7	Total	
-8 No Yes Previously reported	10 2,221 2,674 2,671	3 1,786 111 4,510	6 1,481 92 3,987	43 12,220 8,331 21,544	
Total	7 , 576	6 , 410	5 , 566	42,138	

(17,903 missing values generated)

(12,220 real changes made)

(0 real changes made)

(43 real changes made)

sr_htn_eve r	-8	No	sr_htn_raw Yes	Previousl		Total
-8 0 1	43 0 0 0	12,220 0 0	0 0 8,331 0	0 0 21,544 0	0 0 0 0 5,640	43 12,220 29,875 5,640
Total	43	12,220	8 , 331	21,544	5,640	47,778
sr_htn_eve r	1	2	Survey wave	4	5	Total
-8 0 1	10 2,491 5,108	1,840 4,212	7 1,359 3,518	3 1,042 2,992	10 2,221 5,345	43 12,220 29,875
 Total	7 , 609	6 , 056	4,884	4,037	7 , 576	42,138

sr_htn_eve r	Survey 6	wave 7	Total
-8 0 1	3 1,786 4,621	6 1,481 4,079	43 12,220 29,875
Total	6,410	5 , 566	42,138

(13,249 missing values generated)

(21,544 real changes made)

Cum.	Percent	Freq.	sr_htn_new
0.10 90.67 100.00	0.10 90.57 9.33	33 31,273 3,223	-8 0 1
	100.00	34,529	Total

135 prev_report ra 4 (47,778 missing values generated)

(4,248 real changes made)

(3,345 real changes made)

(0 real changes made)
(1 real change made)

(15 real changes made)

(277 real changes made)

(2,399 real changes made)

(3,378 real changes made)

(0 real changes made)

(2 real changes made)

(190 real changes made)

(1,753 real changes made)

(2,934 real changes made)

(0 real changes made)

(7 real changes made)

(127 real changes made)

(1,344 real changes made) (2,563 real changes made)

(0 real changes made)

(3 real changes made)

(2,268 real changes made)

(2,896 real changes made)

(2,402 real changes made)

(0 real changes made)

(10 real changes made) (283 real changes made) (2,153 real changes made) (3,972 real changes made) (0 real changes made) (2 real changes made) (158 real changes made) (1,726 real changes made) (3,677 real changes made) (0 real changes made) (5 real changes made)

		Surve	y wave		
sr_ra_raw	1	2	3	4	Total
-8 -7 No Yes Previously reported	15 1 3,345 4,248	2 0 2,399 277 3,378	7 0 1,753 190 2,934	3 0 1,344 127 2,563	44 1 15,616 7,551 18,926
Total	+ 7,609	6,056	4,884	4,037	+ 42,138

sr_ra_raw	 5	Survey wave	7	Total
-8 -7 No Yes Previously reported	10 0 2,896 2,268 2,402	2 0 2,153 283 3,972	5 0 1,726 158 3,677	44 1 15,616 7,551 18,926
Total	7 , 576	6,410	5 , 566	42,138

(21,301 missing values generated) (15,616 real changes made) (1 real change made) (44 real changes made)

			sr ra raw			
sr_ra_ever	-8	-7	No	Yes	Previousl	Total
-8	44	0	0	0	0	44
-7	0	1	0	0	0	1
0	0	0	15,616	0	0	15,616
1	0	0	0	7,551	18,926	26,477
	0	0	0	0	0	5,640
Total	44	1	15 , 616	7 , 551	18 , 926	47,778

sr_ra_ever	sr_ra_raw .	Total
	+	+
-8	0	44
-7	0	1
0	0	15,616
1	0	26,477
	5,640	5,640
	+	+
Total	5,640	47,778

			Survey wave			
sr_ra_ever	1	2	3	4	5	Total
-8 -7	15	2	7	3	10	44
0	3,345	2,399	1,753	1,344	2,896	15,616
	4,248 +	3,655 	3 , 124	2,690 	4,670 	26,477
Total	7,609	6 , 056	4,884	4,037	7,576	42,138

sr ra ever	Survey	wave 7	Total
	,		
-8	2	5	44
-7	0	0	1
0	2,153	1,726	15,616
1	4,255	3,835	26,477
Total	6,410	5,566	42,138

(13,249 missing values generated)

(18,926 real changes made)

Cum.	Percent	Freq.	sr_ra_new
0.08 90.43 100.00	0.08 90.35 9.57	29 31,197 3,303	-8 0 1
	100.00	34,529	Total

136 prev_report osteoprs 5

(47,778 missing values generated) (1,559 real changes made)

(6,023 real changes made)

(0 real changes made)

(0 real changes made)

(27 real changes made)

(172 real changes made)

(4,628 real changes made) (1,242 real changes made)

(0 real changes made)

(14 real changes made)

(158 real changes made)

(3,558 real changes made)

(1,155 real changes made)

(1 real change made)

(12 real changes made)

(100 real changes made)

(2,835 real changes made) (1,086 real changes made)

(0 real changes made)

(16 real changes made)

(803 real changes made)

(5,672 real changes made)

(1,064 real changes made)

(0 real changes made)
(37 real changes made)

(209 real changes made)

(4,603 real changes made) (1,584 real changes made)

(0 real changes made)

(14 real changes made) (164 real changes made)

(3,842 real changes made)

(1,549 real changes made)

(0 real changes made)
(11 real changes made)

sr_osteoprs_raw	1	Surve 2	y wave	4	Total
-8 -7 No Yes Previously reported	27 0 6,023 1,559 0	14 0 4,628 172 1,242	12 1 3,558 158 1,155	16 0 2,835 100 1,086	131 1 31,161 3,165 7,680
Total	7,609	6,056	4,884	4,037	42,138

		Survey wave	<u> </u>	
sr_osteoprs_raw	5	6	7	Total
-8 -7 No Yes Previously reported	37 0 5,672 803 1,064	14 0 4,603 209 1,584	11 0 3,842 164 1,549	131 1 31,161 3,165 7,680
Total	,576	6 , 410	5 , 566	42,138

(36,933 missing values generated) (31,161 real changes made) (1 real change made) (131 real changes made)

sr_osteopr			_osteoprs_r			
s_ever	–8 +	_7 	No	Yes	Previousl	Total
-8	131	0	0	0	0	131
-7	0	1	0	0	0	1
0	0	0	31,161	0	0	31,161
1	0	0	0	3,165	7,680	10,845
·	0	0	0	0	0	5,640
Total	131	1	31,161	3,165	7,680	47,778

sr_osteopr s_ever	sr_osteop1 s_raw .	Total
-8 -7 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	131 1 31,161 10,845 5,640
Total	5,640	47,778

sr_osteopr s_ever	 1	2	Survey wave	4	5	Total
-8 -7 0 1	27 0 6,023 1,559	14 0 4,628 1,414	12 1 3,558 1,313	16 0 2,835 1,186	37 0 5,672 1,867	131 1 31,161 10,845
Total	7,609	6 , 056	4,884	4,037	7 , 576	42,138

sr_osteopr s_ever	Survey 6	wave 7	Total
-8 -7 0 1	14 0 4,603 1,793	11 0 3,842 1,713	131 1 1 1 31,161 1 10,845
Total		5,566	42,138

(13,249 missing values generated) (7,680 real changes made)

sr_osteoprs _new	 Freq.	Percent	Cum.
-8 -7 0 1	104 1 32,818 1,606	0.30 0.00 95.04 4.65	0.30 0.30 95.35 100.00
Total	34,529	100.00	

137 prev_report diabetes 6 (47,778 missing values generated)

(1,925 real changes made)

(5,681 real changes made)

(0 real changes made)

(1 real change made)

(2 real changes made)

(88 real changes made)

(4,444 real changes made)

(1,522 real changes made)

(0 real changes made)
(2 real changes made)

(54 real changes made)

(3,543 real changes made)

(1,283 real changes made)

(1 real change made)

(3 real changes made)

(44 real changes made)

(2,888 real changes made)

(1,102 real changes made)

(0 real changes made)

(3 real changes made)

(1,099 real changes made)

(5,431 real changes made) (1,037 real changes made)

(0 real changes made)

(9 real changes made)

(86 real changes made)

(4,541 real changes made)

(1,783 real changes made)

(0 real changes made)

(0 real changes made)

(59 real changes made)

(3,907 real changes made) (1,597 real changes made)

(0 real changes made)

(3 real changes made)

sr_diabetes_raw	1	Survey 2	wave	4	Total
-8 -7 No Yes Previously reported	2 1 5,681 1,925 0	2 0 4,444 88 1,522	3 1 3,543 54 1,283	3 0 2,888 44 1,102	22 2 30,435 3,355 8,324
Total	7 , 609	6 , 056	4,884	4,037	42,138

sr_diabetes_raw	 5	Survey wave	7	Total
-8 -7 No Yes Previously reported	9 0 5,431 1,099 1,037	0 0 4,541 86 1,783	3 0 3,907 59 1,597	22 2 30,435 3,355 8,324
Total	7 , 576	6,410	5 , 566	42,138

(36,099 missing values generated) (30,435 real changes made) (2 real changes made) (22 real changes made)

sr diabete		sr	diabetes r	aw		
_ s_ever	–8 +		No	Yes	Previousl	Total
-8	22	0	0	0	0	22
-7	0	2	0	0	0	1 2
0	0	0	30,435	0	0	30,435
1	0	0	0	3,355	8,324	11,679
·	0	0	0	0	0	5,640
Total	22	2	30,435	3,355	8 , 324	47,778

sr_diabete s_ever	sr_diabete s_raw	Total
-8 -7 0 1	0 0 0 0 5,640	22 2 30,435 11,679 5,640
Total	5 , 640	47,778

sr_diabete s_ever	1	2	Survey wave	4	5	Total
-8 -7 0 1	2 1 5,681 1,925	2 0 4,444 1,610	3 1 3,543 1,337	3 0 2,888 1,146	9 0 5,431 2,136	22 2 30,435 11,679
Total	7 , 609	6 , 056	4,884	4,037	7 , 576	42,138

sr_diabete s_ever	Survey	wave 7	Total
-8 -7 0 1	0 0 4,541 1,869	3 0 3,907 1,656	22 2 30,435 11,679
Total	6,410	5,566	42,138

(13,249 missing values generated) (8,324 real changes made)

sr_diabetes _new	 Freq.	Percent	Cum.
-8 -7 0 1	20 1 33,078 1,430	0.06 0.00 95.80 4.14	0.06 0.06 95.86 100.00
Total	34 , 529	100.00	

```
138 prev report lung dis 7
```

- (47,778 missing values generated)
- (1,154 real changes made)
- (6,450 real changes made)
- (0 real changes made)
- (0 real changes made)
- (5 real changes made)
- (135 real changes made)
- (5,033 real changes made)
- (884 real changes made)
- (0 real changes made)
- (4 real changes made)
- (106 real changes made)
- (3,979 real changes made)
- (795 real changes made)
- (1 real change made)
- (3 real changes made)
- (75 real changes made)
- (3,223 real changes made)
- (736 real changes made)
- (0 real changes made)
- (3 real changes made)
- (679 real changes made)
- (6,181 real changes made)
- (710 real changes made)
- (0 real changes made)
- (6 real changes made)
- (111 real changes made)
- (5,126 real changes made)
- (1,170 real changes made)
- (0 real changes made)
- (3 real changes made)
- (102 real changes made)
- (4,375 real changes made) (1,083 real changes made)
- (0 real changes made)
- (6 real changes made)

	Survey wave				
sr_lung_dis_raw	1	2	3	4	Total
-8	5	4	3	3	30
-7	0	0	1	0	1
No	6,450	5,033	3 , 979	3,223	34,367
Yes	1,154	135	106	75	2,362
Previously reported	0	884	795	736	5,378
Total	7 , 609	6,056	4,884	4,037	42,138

sr_lung_dis_raw	5	Survey wave	7	Total
-8 -7 No Yes Previously reported	6,181 679 710	3 0 5,126 111 1,170	6 0 4,375 102 1,083	30 1 34,367 2,362 5,378
Total	7,576	6,410	5 , 566	42,138

(40,038 missing values generated) (34,367 real changes made) (1 real change made) (30 real changes made)

sr_lung_di s_ever	-8	sr -7	_lung_dis_r No	aw Yes	Previousl	Total
-8 -7 0 1	30 0 0 0	0 1 0 0	0 0 34,367 0 0	0 0 0 2,362 0	0 0 0 5,378 0	30 1 34,367 7,740 5,640
Total	30	1	34,367	2,362	5 , 378	47,778

sr_lung_di s_ever	sr_lung_di s_raw .	Total
-8 -7 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 1 34,367 7,740 5,640
Total	+ 5 , 640	47,778

sr_lung_di s_ever	1	2	Survey wave	4	5	Total
-8 -7 0 1	5 5 6,450 1,154	4 0 5,033 1,019	3 1 3,979 901	3 0 3,223 811	6 0 6,181 1,389	30 1 1 34,367 7,740
Total	7 , 609	6 , 056	4,884	4,037	7 , 576	42,138

sr_lung_di s_ever	Survey 6	wave 7	Total
-8 -7 0 1	3 0 5,126 1,281	6 0 4,375 1,185	30 1 1 34,367 7,740
Total	6,410	5 , 566	42,138

(13,249 missing values generated) (5,378 real changes made)

sr_lung_dis _new	 Freq.	Percent	Cum.
-8 -7 0 1		0.07 0.00 96.43 3.50	0.07 0.08 96.50 100.00
Total	34,529	100.00	

```
139 prev report dementia 9
  (47,778 missing values generated)
  (457 real changes made)
  (7,146 real changes made)
  (0 real changes made)
  (0 real changes made)
  (6 real changes made)
  (136 real changes made)
  (5,611 real changes made)
  (305 real changes made)
  (0 real changes made)
  (4 real changes made)
  (126 real changes made)
  (4,455 real changes made)
  (297 real changes made)
  (1 real change made)
  (5 real changes made)
  (95 real changes made)
  (3,658 real changes made)
  (283 real changes made)
  (0 real changes made)
  (1 real change made)
  (288 real changes made)
  (6,994 real changes made)
  (283 real changes made)
  (1 real change made)
  (10 real changes made)
  (147 real changes made)
  (5,865 real changes made)
  (393 real changes made)
  (0 real changes made)
  (5 real changes made)
  (122 real changes made)
  (5,058 real changes made)
  (384 real changes made)
  (0 real changes made)
  (2 real changes made)
```

	Survey wave				
sr_dementia_raw	1	2	3	4	Total
-8 -7	6 0	4 0	5 1	1 0	33
No Yes	7,146 1 457	5,611 136	4,455 126	3,658 95	38,787 1,371
Previously reported	0	305	297	283	1,945
Total	7 , 609	6,056	4,884	4,037	42,138

	Survey wave					
sr_dementia_raw	5	6	7	Total		
-8 -7 No Yes Previously reported	10 1 6,994 288	5 0 5,865 147 393	2 0 5,058 122 384	33 2 38,787 1,371 1,945		
Total	† 7 , 576	6,410	5,566	42,138		

^{(44,462} missing values generated)

^{(38,787} real changes made)

⁽² real changes made)

⁽³³ real changes made)

sr_dementi a_ever	-8	sr -7	_dementia_r No	raw Yes	Previousl	Total
-8 -7 0 1	33 0 0 0 0	0 2 0 0	0 0 38,787 0 0	0 0 0 1,371 0	0 0 0 1,945 0	33 2 38,787 3,316 5,640
Total	33	2	38 , 787	1,371	1,945	47,778

sr_dementi a_ever	sr_dementi a_raw	Total
-8 -7 0 1	0 0 0 0 5,640	33 2 38,787 3,316 5,640
Total	5,640	47,778

sr_dementi a ever	1	2	Survey wave	4	5	Total
						+
-8	6	4	5	1	10	33
-7	0	0	1	0	1	2
0	7,146	5,611	4,455	3,658	6,994	38,787
1	457	441	423	378	571	3,316
Total	7 , 609	6 , 056	4,884	4,037	7,576	42,138

sr_dementi a_ever	Survey 6	wave 7	Total
-8 -7 0	5 0 5,865 540	2 0 5,058 506	33 2 38,787 3,316
Total	6,410	5 , 566	42,138

(13,249 missing values generated) (1,945 real changes made)

sr_dementia _new	Freq.	Percent	Cum.
-8 -7 0 1	27 2 33,586 914	0.08 0.01 97.27 2.65	0.08 0.08 97.35 100.00
Total	34 , 529	100.00	

```
141 la var sr heart dis ever "Self report Heart Disease"
142 la var sr heart dis new "Self report Heart Disease since prev year"
143 la var sr htn ever "Self report high blood pressure"
144 la var sr htn new "Self report high blood pressure since prev year"
145 la var sr ra ever "Self report arthritis"
146 la var sr ra new "Self report arthritis since prev year"
147 la var sr osteoprs ever "Self report osteoporosis"
148 la var sr osteoprs new "Self report osteoporosis since prev year"
149 la var sr diabetes ever "Self report diabetes"
150 la var sr diabetes new "Self report diabetes since prev year"
151 la var sr lung dis ever "Self report Lung Disease"
152 la var sr lung dis new "Self report Lung Disease since prev year"
153 la var sr dementia ever "Self report Dementia"
154 la var sr dementia new "Self report Dementia since prev year"
156
157 notes sr heart dis raw: disescn2
158 notes sr heart dis raw: Had any heart disease including angina or CHF (self-re
159 notes sr heart dis ever: sr heart dis raw
160 notes sr heart dis ever: Had heart disease ever (self-report)
161 notes sr_heart_dis_new: sr_heart_dis_raw
162 notes sr heart dis new: Had heart disease since prev interview (self-report).
164 notes sr htn raw: disescn3
165 notes sr htn raw: Had High blood pressure (self-report)
166 notes sr_htn_ever: sr_htn_raw
167 notes sr htn ever: Had High blood pressure ever (self-report)
168 notes sr htn new: sr htn raw
169 notes sr htn new: Had High blood pressure since prev interview (self-report).
170
171 notes sr ra raw: disescn4
172 notes sr ra raw: Had arthritis (including osteo or rheumatoid) (self-report)
```

```
173 notes sr ra ever: sr ra raw
174 notes sr ra ever: Had arthritis ever (self-report)
175 notes sr_ra_new: sr_ra_raw
176 notes sr ra new: Had arthritis since prev interview (self-report).
178 notes sr_osteoprs_raw: disescn5
179 notes sr osteoprs raw: Had osteoporosis (self-report)
180 notes sr osteoprs ever: sr osteoprs raw
181 notes sr osteoprs ever: Had osteoporosis ever (self-report)
182 notes sr_osteoprs_new: sr_osteoprs_raw
183 notes sr osteoprs new: Had osteoporosis since prev interview (self-report).
185 notes sr diabetes raw: disescn6
186 notes sr diabetes raw: Had arthritis (including osteo or rheumatoid) (self-rep
 > ort)
187 notes sr diabetes ever: sr diabetes raw
188 notes sr diabetes ever: Had diabetes ever (self-report)
189 notes sr_diabetes_new: sr_diabetes_raw
190 notes sr diabetes new: Had diabetes since prev interview (self-report).
192 notes sr lung dis raw: disescn7
193 notes sr_lung_dis_raw: Had any lung disease, such as emphysema, asthma, or chr > onic bronchitis (self-report)
194 notes sr lung dis ever: sr lung dis raw
195 notes sr lung dis ever: Had lung disease ever (self-report)
196 notes sr_lung_dis_new: sr_lung_dis_raw
197 notes sr lung dis new: Had lung disease since prev interview (self-report).
199 notes sr dementia raw: disescn9
200 notes sr dementia raw: Had dementia or Alzheimer's disease (self-report)
201 notes sr dementia ever: sr dementia raw
202 notes sr_dementia_ever: Had dementia ever (self-report)
203 notes sr dementia new: sr dementia raw
```

```
204 notes sr dementia new: Had dementia since prev interview (self-report).
205
206 foreach x in sr heart dis raw sr heart dis ever sr heart dis new sr htn raw sr
 > htn ever ///
 > sr htn new sr ra raw sr ra ever sr ra new sr osteoprs raw sr osteoprs ever sr
 > osteoprs new 7//
 > sr_diabetes_raw sr_diabetes_ever sr_diabetes_new sr_lung_dis_raw sr_lung_dis_e
  > ver ///
 > sr_lung_dis_new sr_dementia_raw sr_dementia_ever sr_dementia_new{
207 notes `x': Located in NHATS Setup, under Part 4.
   3. notes `x': Updated: 04/15/19-MH
   4. }
208
209 *************
210 //Depression & Anxiety
211 //Over the last month how often have you:
212 //responses are 1=not at all, 2=several days, 3=more than half days, 4=nearly
> every day 213 *******
                *********
214 gen sr depr pqq1=.
 (47,778 missing values generated)
215 gen sr depr pqq2=.
  (47,778 missing values generated)
216 gen sr anx gad1=.
  (47,778 missing values generated)
217 gen sr_anx_gad2=.
  (47,778 missing values generated)
218
219 forvalues w=1/$w{
              //set up new variables for individual wave variables
220
           foreach q in 1 2 3 4 {
              gen temp hc`w'deprsan`q'=. if inlist(depresan`q',-9,-8,-7,-1) & wav
 > e==`w'
              replace temp hc`w'deprsan`q'=depresan`q'-1 if inlist(depresan`q',1,
 > 2,3,4) \& wave==`w'
              replace temp hc`w'deprsan`q'=0 if inlist(depresan`q',-8,-7) & wave=
 > = `w'
   6.
   7.
              //now create clean depression, anxiety variables
           replace sr_depr_pqq1=temp_hc`w'deprsan1 if wave==`w' //little interest
221
    or pleasure in doing things
             replace sr_depr_pqq2=temp_hc`w'deprsan2 if wave==`w' //felt down/de
 > pressed/hopeless
              replace sr anx gad1=temp hc`w'deprsan3 if wave==`w' //felt nervous
   9.
 > or anxious
              replace sr anx gad2=temp hc`w'deprsan4 if wave==`w' //unable to sto
 > p worrying
  11.
222
           foreach q in 1 2 3 4 {
223
              drop temp hc`w'deprsan`q'
  12.
  13.
  14.
```

```
224 }
  (47,778 missing values generated)
  (7,564 real changes made)
  (45 real changes made)
  (47,778 missing values generated)
  (7,579 real changes made)
  (30 real changes made)
  (47,778 missing values generated)
  (7,579 real changes made)
  (30 real changes made)
  (47,778 missing values generated)
  (7,580 real changes made)
  (29 real changes made)
  (7,609 real changes made)
  (7,609 real changes made)
  (7,609 real changes made)
  (7,609 real changes made)
  (47,778 missing values generated)
  (6,010 real changes made)
  (46 real changes made)
  (47,778 missing values generated)
  (6,031 real changes made)
  (25 real changes made)
  (47,778 missing values generated)
  (6,034 real changes made)
  (22 real changes made)
  (47,778 missing values generated)
  (6,018 real changes made)
  (38 real changes made)
  (6,056 real changes made)
  (6,056 real changes made)
  (6,056 real changes made)
  (6,056 real changes made)
  (47,778 missing values generated)
  (4,844 real changes made)
  (40 real changes made)
  (47,778 missing values generated)
  (4,854 real changes made)
  (30 real changes made)
  (47,778 missing values generated)
  (4,853 real changes made)
  (31 real changes made)
  (47,778 missing values generated)
  (4,842 real changes made)
  (42 real changes made)
  (4,884 real changes made)
  (4,884 real changes made)
  (4,884 real changes made)
  (4,884 real changes made)
  (47,778 missing values generated)
  (3,998 real changes made)
  (39 real changes made)
  (47,778 missing values generated)
  (4,010 real changes made)
  (27 real changes made)
  (47,778 missing values generated)
  (4,015 real changes made)
  (22 real changes made)
  (47,778 missing values generated)
  (4,008 real changes made)
  (29 real changes made)
  (4,037 real changes made)
  (4,037 real changes made)
  (4,037 real changes made)
  (4,037 real changes made)
  (47,778 missing values generated)
  (7,520 real changes made)
  (56 real changes made)
  (47,778 missing values generated)
  (7,534 real changes made)
  (42 real changes made)
  (47,778 missing values generated)
```

(7,540 real changes made)

```
(36 real changes made)
  (47,778 missing values generated)
  (7,517 real changes made)
  (59 real changes made)
  (7,576 real changes made)
  (7,576 real changes made) (7,576 real changes made)
  (7,576 real changes made)
  (47,778 missing values generated)
  (6,365 real changes made)
  (45 real changes made)
  (47,778 missing values generated)
  (6,379 real changes made)
  (31 real changes made)
  (47,778 missing values generated)
  (6,376 real changes made)
  (34 real changes made)
  (47,778 missing values generated)
  (6,368 real changes made)
  (42 real changes made)
  (6,410 real changes made)
  (6,410 real changes made)
  (6,410 real changes made)
  (6,410 real changes made)
  (47,778 missing values generated)
  (5,538 real changes made)
  (28 real changes made)
  (47,778 missing values generated)
  (5,531 real changes made)
  (35 real changes made)
  (47,778 missing values generated)
  (5,540 real changes made)
  (26 real changes made)
  (47,778 missing values generated)
  (5,535 real changes made)
  (31 real changes made)
  (5,566 real changes made)
  (5,566 real changes made)
  (5,566 real changes made)
  (5,566 real changes made)
226 la def depr anx 0"Not at all" 1"Several days" 2"More than half the days" ///
 > 3"Nearly every day"
227 la val sr depr pqq1 sr depr pqq2 sr anx gad1 sr anx gad2 depr anx
228 la var sr_depr_pqq1 "How often little interest in doing things?"
229 la var sr depr pqq2 "How often felt down, depressed, hopeless?"
230 la var sr anx gad1 "How often felt nervous or anxious?"
231 la var sr anx gad2 "How often unable to stop worrying?"
233 foreach v in sr_depr_pqq1 sr_depr_pqq2 sr_anx_gad1 sr_anx_gad2{ 2. tab v'wave if ivw_type==1,missing
    2.
       How often little |
              t in doing | Survey wave things? | 1 2 3 4 |
      interest in doing |
                                                                              Total
  _____
 Not at all | 4,843 3,847 3,091 2,540 | 26,678 Several days | 1,561 1,327 1,093 900 | 9,238 More than half the da | 556 446 329 304 | 3,092 Nearly every day | 649 436 371 293 | 3,130
                  Total | 7,609 6,056 4,884 4,037 | 42,138
```

How often unable to	1	Survey wave		
stop worrying?	5	6	7	Total
Not at all Several days More than half the da Nearly every day	5,517 1,336 325 398	4,699 1,134 247 330	4,128 912 239 287	30,805 7,169 1,763 2,401
Total	7,576	6,410	5 , 566	42,138

- 234
- 235 //combined phq-2 score for depression, cutoff 3+=depressed
 236 gen sr_phq2_score=sr_depr_pqq1+sr_depr_pqq2
 (5,640 missing values generated)
- 237 gen sr_phq2_depressed=1 if sr_phq2_score>=3 & sr_phq2_score~=. (41,758 missing values generated)
- 238 replace sr_phq2_depressed=0 if sr_phq2_score<3 & sr_phq2_score~=. (36,118 real changes made)
- 239 la var sr_phq2_score "PHQ-2 combined score 0-6 scale"
- 240 la var sr phq2 depressed "Depressed per PHQ-2, score=3+"
- 241 tab sr_phq2_score sr_phq2_depressed if ivw_type==1, missing

PHQ-2 combined score 0-6 scale	Depressed p score		Total
0 1 2 3 4 5 6	23,002 7,476 5,640 0 0	0 0 0 3,234 1,491 577 718	23,002 7,476 5,640 3,234 1,491 577 718
Total	36,118	6 , 020	42,138

- 242
- 243 //combined gad-2 score for anxiety, cutoff 3+=anxiety
- 244 gen sr_gad2_score=sr_anx_gad1+sr_anx_gad2
 (5,640 missing values generated)
- 245 gen sr_gad2_anxiety=1 if sr_gad2_score>=3 & sr_gad2_score~=.
 (42,862 missing values generated)
- 246 replace sr_gad2_anxiety=0 if sr_gad2_score<3 & sr_gad2_score~=. (37,222 real changes made)
- 247 la var sr gad2 score "GAD-2 combined score 0-6 scale"
- 248 la var sr gad2 anxiety "Anxiety per GAD-2, score=3+"
- 249 tab sr_gad2_score sr_gad2_anxiety if ivw_type==1, missing

GAD-2 combined score 0-6 scale	Anxiety per score=3 0		Total
0 1 2 3 4 5	24,018 8,356 4,848 0 0	0 0 0 2,088 1,451 537 840	24,018 8,356 4,848 2,088 1,451 537 840
Total	+ 37 , 222	4,916	42,138

250 tab sr_gad2_anxiety wave, missing

Anxiety per GAD-2, score=3+	1	Si 2	urvey wave 3	4	5	Total
0 1 •	6,581 1,028 636	5,308 748 1,019	4,320 564 915	3,593 444 700	6,728 848 758	37,222 4,916 5,640
Total	8,245	7 , 075	5 , 799	4 , 737	8,334	47 , 778

Anxiety per GAD-2, score=3+	 Survey 6	wave 7	Total
0 1	5,721 689 866	4,971 595 746	37,222 4,916 5,640
Total	7 , 276	6 , 312	47,778

251 252 notes sr_depr_pqq1: deprsan1

253 notes sr_depr_pqq1: Last month had little interest/pleasure in doing things.

254 notes sr_depr_pqq2: deprsan2

255 notes sr_depr_pqq2: Last month felt down/depressed/hopeless.

256 notes sr_anx_gad1: deprsan3

257 notes sr_anx_gad1: Last month felt nervous/anxious/on edge.

258 notes sr_anx_gad2: deprsan4

259 notes sr_anx_gad2: Last month how often been unable to stop/control worrying.

261 notes sr_phq2_score: deprsan1 deprsan2

```
262 notes sr phq2 score: sr depr pqq1 plus sr depr pqq2, measuring depression
263 notes sr phq2 depressed: deprsan1 deprsan2
264 notes sr_phq2_depressed: sr_phq2_score >=3, depression indicator
266 notes sr gad2 score: sr anx gad1 sr anx gad2
267 notes sr_gad2_score: sr_anx_gad1 plus sr_anx_gad2, measuring anxiety
268 notes sr gad2 anxiety: sr anx gad1 sr anx gad2
269 notes sr gad2 anxiety: sr gad2 score >= 3, anxiety indicator
271 foreach x in sr depr pqq1 sr depr pqq2 sr anx gad1 sr anx gad2 sr phq2 score /
  > sr_phq2_depressed sr gad2 score sr gad2 anxiety{
   2. notes `x': Located in NHATS Setup, under Part 4.
3. notes `x': Updated: 04/15/19-MH
   4. }
272
273 ****************************
274 //Dementia, based on NHATS technical paper no. 5, expanded for 3 waves
275 //separate variables for proxy vs self interviews
276 ************
277 tab proxy_ivw ivw_type, missing
  Interview | ivw_type
via proxy | Alive, SP Died, pro SP interv |
                                                  Total
  _____
          Total | 42,138 2,671 2,969 |
                                                 47,778
279 //Initialize 3 category dementia variable
280 //probable dementia, possible dementia, no dementia
281 //probable = diagnosis reported or 2+ ad8 questions (proxy) or <1.5 SD below m
 > ean
282 gen dem 3 cat=-1 if ivw type!=1 //set to na if not SP interview
  (42,138 missing values generated)
283 replace dem 3 cat=1 if sr dementia ever==1 //if reported directly
  (3,316 real changes made)
284
285 //for proxy interviews, use ad8 score
286 forvalues i = 1/8{
2. gen pr_ad8_`i'=-1 //initialize to n/a
3. replace pr_ad8_`i'=. if proxy_ivw==1 & dem_3_cat==. //set missing if proxy
  > ivw w/o direct report dementia
    4. forvalues w=1/$w{
             replace pr ad8 `i'=1 if inlist(chgthink`i',1,3) & wave==`w' & dem 3

    tab pr_ad8_`i' wave, missing
    tab pr_ad8_`i' wave if proxy_ivw==1, missing

  (1,207 real changes made, 1,207 to missing)
  (108 real changes made)
  (206 real changes made)
  (73 real changes made)
  (148 real changes made)
  (50 real changes made)
```

- (101 real changes made)
- (42 real changes made)
- (63 real changes made) (62 real changes made)
- (111 real changes made)
- (50 real changes made)
- (89 real changes made) (28 real changes made)
- (47 real changes made)

1 0 1	1	2	Survey wave		F	
pr_ad8_1	⊥ +		ა 	4		Total
-1 0 1	7,931 206 108	6,851 148 73 3	5,644 101 50 4	4,625 63 42 7	8,157 111 62 4	46,571 765 413 29
Total	+ 8 , 245	7,075	5 , 799	4,737	8,334	47,778

	Survey	wave	
pr_ad8_1	1 6	7	Total
	+		+
-1	7,132	6 , 231	46,571
0	89	47	765
1	50	28	413
	5	6	29
	+		+
Total	7,276	6,312	47,778

			Survey wave	è		
pr_ad8_1	1	2	3	4	5	Total
-1 0 1	269 206 108	740 148 73 3	742 101 50 4	610 63 42 7	602 111 62 4	4,391 765 413 29
Total	583	964	897	722	779	5,598

	Survey wa	ve	
pr_ad8_1	6	7	Total
-1	750 89	678	4,391
1	50	47 28	765 413
	5 +	6 	29
Total	894	759 i	5,598

(1,207 real changes made, 1,207 to missing)

- (124 real changes made)
- (190 real changes made)
- (86 real changes made)
- (135 real changes made)
- (62 real changes made)
- (89 real changes made)
- (44 real changes made) (61 real changes made)
- (73 real changes made)
- (99 real changes made) (67 real changes made) (72 real changes made)
- (31 real changes made)
- (44 real changes made)

pr_ad8_2	Survey 6	wave 7	Total
-1 0 1	7,132 72 67 5	6,231 44 31 6	46,571 690 487 30
Total	7 , 276	6 , 312	47,778

pr_ad8_2	1	2	Survey wave 3	4	5	Total
-1 0 1 •	269 190 124 0	740 135 86 3	742 89 62 4	610 61 44 7	602 99 73 5	4,391 690 487 30
Total	583	964	897	722	779	5 , 598

	Survey w	ave	
pr_ad8_2	6	7	Total
	+	+	
-1	750	678	4,391
0	1 72	44	690
1	i 67	31 i	487
•	5	6	30
	+	+	
Total	894	759	5,598

- (1,207 real changes made, 1,207 to missing)
- (133 real changes made)
- (181 real changes made)
- (88 real changes made)
- (133 real changes made)
- (62 real changes made)
- (89 real changes made)
- (46 real changes made) (59 real changes made)
- (74 real changes made)
- (98 real changes made) (54 real changes made)
- (85 real changes made)
- (30 real changes made)
- (45 real changes made)

			Survey wave			
pr_ad8_3	1	2	3	4	5	Total
-1 0 1	7,931 181 133 0	6,851 133 88 3	5,644 89 62 4	4,625 59 46 7	8,157 98 74 5	46,571 690 487 30
Total	8,245	7,075	5 , 799	4,737	8,334	47,778

pr_ad8_3	Survey 6	7 wave 7	Total
-1 0 1	7,132 85 54 5	6,231 45 30 6	46,571 690 487 30
Total	7,276	6 , 312	47,778

			Survey wave	9		
pr_ad8_3	1 +	2	3	4	5	Total
-1	269	740	742	610	602	4,391
0	181	133	89	59	98	690
1	133	88	62	46	74	487
·	0	3	4	7	5	30
Total	 583	964	897	722	779	5,598

	Survey wa	ave	
pr_ad8_3	1 6	7	Total
	+	+	
-1	750	678	4,391
0	85	45	690
1	54	30	487
	5	6	30
	+	+	
Total	894	759	5,598

- (1,207 real changes made, 1,207 to missing)
- (97 real changes made) (217 real changes made)
- (81 real changes made)

- (140 real changes made) (59 real changes made) (92 real changes made) (44 real changes made)
- (61 real changes made) (72 real changes made)
- (100 real changes made)

- (50 real changes made) (89 real changes made) (24 real changes made) (51 real changes made)

			Survey wave			
pr_ad8_4	1	2	3	4	5	Total
-1 0 1	7,931 217 97	6,851 140 81 3	5,644 92 59 4	4,625 61 44 7	8,157 100 72 5	46,571 750 427 30
Total	8,245	7,075	5 , 799	4,737	8 , 334	47,778

pr_ad8_4	Survey 6	wave 7	Total
-1 0 1	7,132 89 50	6,231 51 24 6	46,571 750 427 30
Total	7,276	6 , 312	47,778

Total |

583

964

897

pr_ad8_4	 1 	2 	urvey wave 3	4	5	Total
-1 0 1	269 217 97 0	740 140 81 3	742 92 59 4	610 61 44 7	602 100 72 5	4,391 750 427 30
Total	583	964	897	722	779	5,598
pr_ad8_4	Survey v	vave 7	Total			
-1 0 1	750 89 50	678 51 24 6	4,391 750 427 30			
Total	894	759	5 , 598			
(104 real character) (210 real character) (83 real character) (43 real character)	nanges made)	1,207 to	missing)			
pr_ad8_5	 1	S 2	urvey wave 3	4	5	Total
-1 0 1	7,931 210 104	6,851 138 83 3	5,644 108 43 4	4,625 68 37 7	8,157 108 64 5	46,571 767 410 30
Total	8,245	7 , 075	5 , 799	4,737	8,334	47 , 778
pr_ad8_5	Survey v 6	vave 7	Total			
-1 0 1	7,132 88 51 5	6,231 47 28 6	46,571 767 410 30			
Total	7 , 276	6,312	47 , 778			
pr_ad8_5	 1	S 2	urvey wave 3	4	5	Total
-1 0 1	+	740 138 83 3	742 108 43 4	610 68 37 7	602 108 64 5	4,391 767 410 30

722

5,598

779 |

	Survey wa	ave	
pr_ad8_5	1 6	7	Total
	+		
-1	750	678	4,391
0	88	47	767
1	I 51	28	410
	5	6 j	30
	+	+-	
Total	894	759	5,598

(1,207 real changes made, 1,207 to missing)

- (98 real changes made)
- (215 real changes made)
- (68 real changes made) (153 real changes made)
- (44 real changes made)
- (107 real changes made) (35 real changes made) (70 real changes made)

- (61 real changes made)
- (112 real changes made)
- (41 real changes made) (98 real changes made)
- (25 real changes made)
 (50 real changes made)

I			Survey wave	:		
pr_ad8_6	1	2	3	4	5	Total
-1 0 1	7,931 215 98 1	6,851 153 68 3	5,644 107 44 4	4,625 70 35 7	8,157 112 61 4	46,571 805 372 30
Total	8,245	7 , 075	5 , 799	4,737	8 , 334	47,778

pr_ad8_6	Survey 6	wave 7	Total
-1 0 1	7,132 98 41	6,231 50 25 6	46,571 805 372 30
Total	7,276	6 , 312	47,778

pr_ad8_6	 1	2	Survey wave	4	5	Total
-1 0 1	269 215 98	740 153 68 3	742 107 44 4	610 70 35 7	602 112 61 4	4,391 805 372 30
Total	583	964	897	722	779	5,598

pr_ad8_6	Survey wave 6	7	Total
-1 0 1	750 98 41 5	678 50 25 6	4,391 805 372 30
Total	894	759	5,598

```
(1,207 real changes made, 1,207 to missing)
(66 real changes made)
(248 real changes made)
(49 real changes made)
(171 real changes made)
(24 real changes made)
(127 real changes made)
(24 real changes made)
(80 real changes made)
(29 real changes made)
(143 real changes made)
(19 real changes made)
(120 real changes made)
(13 real changes made)
(62 real changes made)
```

			Survey wave			
Total	5	4	3	2	1	pr_ad8_7
46,571 951 224 32	8,157 143 29 5	4,625 80 24 8	5,644 127 24 4	6,851 171 49 4	7,931 248 66	-1 0 1
47,778	8,334	4,737	5,799	7,075	8,245	Total

	Survey	wave	
pr_ad8_7	1 6	7	Total
	+		+
-1	7,132	6,231	46,571
0	120	62	951
1	19	13	224
•	5	6	32
Total	+ 7 , 276	6,312	47,778

pr_ad8_7	1	2	Survey wave	4	5	Total
-1 0 1	269 248 66 0	740 171 49 4	742 127 24 4	610 80 24 8	602 143 29 5	4,391 951 224 32
Total	583	964	897	722	779	5,598

pr_ad8_7	Survey wav	e 7 	Total
-1 0 1	750 120 19 5	678 62 13 6	4,391 951 224 32
Total	894	759	5,598

(1,207 real changes made, 1,207 to missing)

⁽¹¹⁴ real changes made) (200 real changes made)

⁽⁷⁹ real changes made)

⁽¹⁴² real changes made)

⁽⁶³ real changes made) (88 real changes made)

⁽⁴⁹ real changes made)

⁽⁵⁶ real changes made) (74 real changes made)

⁽⁹⁹ real changes made)

⁽⁶⁵ real changes made)
(74 real changes made)

(35 real changes made) (40 real changes made)

		Su	rvey wave			
pr_ad8_8	1	2	3	4	5	Total
-1 0 1 •	7,931 200 114 0	6,851 142 79 3	5,644 88 63 4	4,625 56 49 7	8,157 99 74 4	46,571 699 479 29
Total	8,245	7 , 075	5 , 799	4,737	8,334	47 , 778

pr_ad8_8	Survey 6	wave 7	Total
-1 0 1	7,132 74 65	6,231 40 35 6	46,571 699 479 29
Total	7 , 276	6 , 312	47,778

			Survey wave	<u> </u>		
pr_ad8_8	1	2	3	4	5	Total
-1 0 1	269 200 114 0	740 142 79 3	742 88 63 4	610 56 49 7	602 99 74 4	4,391 699 479 29
Total	+ 583	964	897	722	779	5,598

pr_ad8_8	Survey	wave 7	Total
-1 0 1	+	678 40 35 6	+ 4,391 699 479 29
Total	894	759	5,598

287
288 tab pr_ad8_3 chgthink3 if wave==1, missing

			R1 CP3C S	P DIFF REME	MBER APPT		
	pr_ad8_3	-9 Missin	-8 DK	-1 Inappl	1 YES, A	2 NO, NO	Total
-	-1	1.00		7 404	100	 25	+
	_T	168	∠ ∧	7,494	126	25 177	, , , , , , ,
	1 1) 	0	0	129	1 / /	133
_	±	,					+
	Total	168	6	7,494	255	202	8,245

pr_ad8_3	R1 CP3C SP DIFF REMEMBER APPT 3 DEMENT	Total
-1 0 1	116 0 4	7,931 181 133
Total	120	8,245

289 tab chgthink1 dad8dem if wave==2 & proxy_ivw==1, missing //previous proxy ivw
> ad8 items indicated dementia

R1 CP3A SP DIFF REMEMBER DATE		PRIOR AD8	Total
-8 DK -1 Inapplicable 1 YES, A CHANGE 2 NO, NO CHANGE 3 DEMENTIA/ALZHEIMER		0 120 0 0 0	1 583 135 179 66
Total	844	120	964

290
291 tab pr_ad8_1 wave, missing

			Survey wave	:		
pr_ad8_1	1	2	3	4	5	Total
-1 0 1	7,931 206 108	6,851 148 73 3	5,644 101 50 4	4,625 63 42 7	8,157 111 62 4	46,571 765 413 29
Total	8,245	7,075	5 , 799	4,737	8 , 334	47,778

pr_ad8_1	Survey 6	y wave 7	Total
-1 0 1	7,132 89 50 50	6,231 47 28 6	46,571 765 413 29
Total	7 , 276	6 , 312	47,778

292 tab pr_ad8_1 dad8dem if wave==2 & proxy_ivw==1, missing //previous proxy ivw a > d8 items indicated dementia

pr_ad8_1	R2 D DE: REPORTED IN -1 Inappl	PRIOR AD8	Total
-1 0 1	623 148 73 0	117 0 0 3	740 148 73 3
Total	844	120	964

293 tab pr_ad8_1 sr_dementia_ever if wave==2 & proxy_ivw==1, missing // reported d > ementia_directly

pr_ad8_1	 -8	Self report	Dementia 1		Total
-1 0 1	0 0 1 0	0 148 72 3	237 0 0 0	503 0 0 0	740 148 73 3
Total	1	223	237	503	964

294 295 gen pr_ad8_score=(pr_ad8_1+pr_ad8_2+pr_ad8_3+pr_ad8_4+pr_ad8_5+pr_ad8_6+pr_ad8
> _7+pr_ad8_8) if proxy_ivw==1 & dem_3_cat==.
(46,605 missing values generated)

296 tab pr_ad8_score proxy_ivw, missing

pr_ad8_sco	Inte	erview via p	roxy	
re	0	1	<u>.</u>	Total
0	1 0	364	0	1 364
1	j 0	166	0	i 166
2	0	113	0	113
3	0	94	0	94
4	0	90	0	90
5	0	94	0	94
6	0	78	0	78
7	0	78	0	78
8	0	96	0	96
·	39,211	4,425	2,969	46,605
Total	39,211	5 , 598	2,969	47,778

297 tab pr_ad8_score wave, missing

pr_ad8_sco re	1	2	Survey wave	4	5	Total
						+
0	103	76	43	31	47	364
1	51	31	29	11	22	166
2	25	19	11	13	17	113
3	18	14	15	6	21	94
4	22	16	14	9	11	90
5	27	19	10	8	15	94
6	25	8	10	6	14	78
7	21	14	7	6	10	78
8	21	23	12	14	14	96
.	7,932	6 , 855	5,648	4,633	8,163	46,605
Total	8,245	7,075	5,799	4,737	8,334	47,778

pr_ad8_sco	Survey	wave	
re	6	/	Total
0	42 12	22 10	364
2	20	8	113
3	12	8	94
4	13	5	90
5	10	5	94
6	11	4	78
7	11	9	78
8	8	4	96
·	7,137	6 , 237	46,605
Total	7,276	6,312	47,778

299 gen dem_via_proxy=1 if pr_ad8_score>=2 & pr_ad8_score~=. //from ad8 score dire > ctly

(47,135 missing values generated)

300 replace dem via proxy=0 if inlist(pr ad8 score,0,1) (530 real changes made)

301 replace dem via proxy=1 if (dad8dem==1 | dad8dem==1) & proxy ivw==1 //if previ > ous interview ad8 indicated dementia (579 real changes made)

302 replace dem_via_proxy=-1 if sr_dementia_ever==1 (3,316 real changes made)

303 tab dem via proxy wave if proxy ivw==1 & ivw type==1, missing

dem via pr			Survey wave	9		
- oxy	1	2	3	4	5	Total
-1 0 1	269 154 159	237 107 116 1	219 72 83 0	206 42 65 5	306 69 103 5	1,720 530 662 15
Total	 583	461	374	318	483	1 2,927

dem via pr	Survey	wave	
oxy	6	7	Total
	+		+
-1	264	219	1,720
0	54	32	530
1	88	48	662
	2	1	15
Total	+ 408	300	2,927

```
304
```

305 //set 3 category dementia state variable

306 //first xwave variable for proxy allowed sp to answer cg section

307 /*2/14/19 Speaktosp already exists since removing prefixes.

> gen speaktosp=.
> forvalues w=1/\$w{

replace speaktosp=cg`w'speaktosp if wave==`w'

> } */

308

309 replace dem_3_cat=1 if dem_3_cat==. & dem_via_proxy==1 //if proxy ivw indicate

(662 real changes made)

310 replace dem 3 cat=3 if dem 3 cat==. & dem via proxy==0 & speaktosp==2 //proxy > ind no dem (262 real changes made)

311 tab dem_3_cat wave, missing

			Survey wave			
dem_3_cat	1	2	3	4	5	Total
-1 1 3	636 616 76 6,917	1,019 557 57 5,442	915 506 31 4,347	700 443 20 3,574	758 674 35 6,867	5,640 3,978 262 37,898
Total	+ 8,245	[,] 7 , 075	 5 , 799	4,737	8,334	47,778

Survey wave

```
7 |
  dem 3 cat
                     6
                                          Total
          -1
                     866
                                746 |
                                          5,640
          1
                     628
                                554 I
                                          3,978
           3 1
                     29
                                14 I
                                            262
                   5,753
                              4,998 i
                                         37,898
      Total |
                 7,276
                             6,312 |
                                       47,778
312
314 notes dem 3 cat: sr dementia ever dem via proxy speaptosp
315 notes dem 3 cat: 3 Category dementia
316
317 forvalues i=1/8{
   2. notes pr ad8 `i': chgthink`i'
318 notes pr ad8 1: Change caused by memeory problems remembering month or year. (
 > from proxy)
319 notes pr ad8 2: Change caused by memeory problems repeating questions, stories
 > , statements. (from proxy)
320 notes pr ad8 3: Change caused by memeory problems amount of difficulty remembe
 > ring appointments. (from proxy)
321 notes pr_ad8_4: Change caused by memeory problems amount of interest in hobbie
 > s/activities. (from proxy)
322 notes pr ad8 5: Change caused by memeory problems handling money matters. (fro
 > m proxy)
323 notes pr ad8 6: Change caused by memeory problems trouble to use tools/gadgets
 > /tv. (from proxy)
324 notes pr ad8 7: Change caused by memeory problems, problems with judgement. (f
 > rom proxy)
325 notes pr_ad8_8: Change caused by memeory problems, faily problems with thinkin
 > g or memeory. (from proxy)
326
327
328 notes pr ad8 score: chgthink*
329 notes pr_ad8_score: adding up pr_ad8_* (from proxy)
331 notes dem_via_proxy: chgthink* pr_ad8_* pr_ad8_score
332 notes dem via proxy: Dementia indicator from proxy.
```

334 foreach x in dem 3 cat pr ad8 1 pr ad8 2 pr ad8 3 pr ad8 4 pr ad8 5 pr ad8 6 /

> pr_ad8_7 pr_ad8_8 pr_ad8_score dem_via_proxy{

```
335 notes `x': Located in NHATS Setup, under Part 4.
    3. notes `x': Updated: 04/15/19-MH
    4. }
336
337 ****************
338 //for self interviews
339 ************
340 //current date questions
341 tab todaydat1 speaktosp if wave==1 & ivw_type==1, missing
  R1 CG6A TODAY'S | R1 CG1A MAY SPEAK TO SP ASK QUES
 DATE CORRCT MNTH | -1 Inappl 1 YES 2 NO | Total
  -7 RF | 3 2 0 | 5
-1 Inapplicable | 0 6 284 | 290
1 YES | 6,523 140 0 | 6,663
2 NO/DON'T KNOW | 500 151 0 | 651
  -----
             Total | 7,026 299 284 | 7,609
342
343 forvalues i = 1/4
           gen date item`i'=.
   2.
   3.
              forvalues w=1/$w{
   4.
                      replace date_item`i'=1 if todaydat`i'==1 & wave==`w' //yes replace date_item`i'=0 if inlist(todaydat`i',2,-7) & wave==
 > `w' //no, dont know, refused
   6. }
  7. } (47,778 missing values generated)
  (6,663 real changes made)
  (656 real changes made)
  (5,305 real changes made)
  (499 real changes made)
  (4,277 real changes made)
  (409 real changes made)
  (3,495 real changes made)
  (359 real changes made)
  (6,715 real changes made)
  (618 real changes made)
  (5,711 real changes made)
  (472 real changes made)
  (4,970 real changes made)
  (421 real changes made)
  (47,778 missing values generated)
  (5,845 real changes made)
  (1,474 real changes made)
  (4,261 real changes made)
  (1,543 real changes made)
(3,336 real changes made)
  (1,350 real changes made)
  (2,744 real changes made)
  (1,110 real changes made)
  (5,585 real changes made)
  (1,748 real changes made)
  (4,506 real changes made)
  (1,677 real changes made)
  (3,939 real changes made)
  (1,452 real changes made)
  (47,778 missing values generated)
  (6,620 real changes made)
  (699 real changes made)
  (5,302 real changes made)
  (502 real changes made)
  (4,266 real changes made)
  (420 real changes made)
  (3,500 real changes made)
  (354 real changes made)
  (6,673 real changes made)
  (660 real changes made)
```

```
(5,668 real changes made)
(515 real changes made)
(4,930 real changes made)
(461 real changes made)
(47,778 missing values generated)
(6,583 real changes made)
(736 real changes made)
(5,357 real changes made)
(447 real changes made)
(4,325 real changes made)
(361 real changes made)
(82 real changes made)
(3,772 real changes made)
(6,774 real changes made)
(559 real changes made)
(5,760 real changes made)
(423 real changes made)
(4,991 real changes made)
(400 real changes made)
```

344 //count date questions correct

345 gen date sum=date_item1+date_item2+date_item3+date_item4 (7,208 missing values generated)

346 tab date_sum wave, missing

date_sum	 1	2	Survey wave	4	5	Total
0 1 2 3 4	317 213 293 1,072 5,424	202 158 294 1,121 4,029 1,271	179 138 196 1,018 3,155 1,113	200 185 825 2,590 54 883	268 203 305 1,294 5,263 1,001	1,534 1,205 2,389 9,568 25,874 7,208
Total	+ 8,245	7,075	5 , 799	4,737	8,334	47,778

date_sum	Survey 6	wave 7	Total
0 1 2 3 4	186 174 246 1,329 4,248 1,093	182 134 230 1,144 3,701 921	1,534 1,205 2,389 9,568 25,874 7,208
Total	7 , 276	6,312	47,778

```
347
348 local i=1
```

```
349 foreach x in Month Day Year "Day of Week"{
    2. notes date_item`i': todaydat`i'
    3. notes date_item`i': Did SP say correct `x'
4. notes date_item`i': Located in NHATS Setup, under Part 4.
    5. notes date item i': Updated: 04/16/19-MH
     6. local i=\tilde{i}+1
    7. }
```

```
350
351 notes date sum: todaydat1 todaydat2 todaydat3 todaydat4
352 notes date sum: Count of date item1-date item4
353 notes date sum: Located in NHATS Setup, under Part 4.
354 notes date_sum: Updated: 04/16/19-MH
355
356
357 //add categories for proxy says can't speak to sp or proxy says can speak but
 > sp unble to answer
358 forvalues w=1/$w{}
               replace date sum=-2 if date sum==. & speaktosp==2 & wave==`w'
    2.
   3.
               replace date sum=-3 if (date item1==. | date item2==. | date item3=
  > =. | ///
                    date_item4==. ) & speaktosp==1 & wave==`w'
    4. }
  (284 real changes made)
  (6 real changes made)
  (250 real changes made)
  (2 real changes made)
  (197 real changes made)
  (1 real change made)
  (182 real changes made)
  (1 real change made)
  (237 real changes made)
  (6 real changes made)
  (220 real changes made)
  (7 real changes made) (170 real changes made)
  (5 real changes made)
```

359 tab date_sum wave, missing

date_sum	1	Su 2	rvey wave	4	5	Total
-3 -2 0 1 2 3 4	284 317 213 293 1,072 5,424 636	2 250 202 158 294 1,121 4,029 1,019	1 197 179 138 196 1,018 3,155	1 182 200 185 825 2,590 54 700	6 237 268 203 305 1,294 5,263	28 1,540 1,534 1,205 2,389 9,568 25,874 5,640
	8,245	7,075	5,799	4,737	8,334	47,778

date_sum	Survey	wave 7	Total
-3 -2 0 1 2 3 4	7 220 186 174 246 1,329 4,248 866	5 170 182 134 230 1,144 3,701	28 1,540 1,534 1,205 2,389 9,568 25,874 5,640
Total	7,276	6 , 312	47,778

			Survey wave	:		
preslast	1	2	3	4	5	Total
0 1	532 6,672 1,041	329 5,395 1,351	281 4,331 1,187	188 3,594 955	415 6,802 1,117	2,510 37,458 7,810
Total	8,245	7 , 075	5 , 799	4,737	8,334	47,778

	Survey	wave	
preslast	6	7	Total
0 1	321 5,786 1,169	444 4,878 990	2,510 37,458 7,810
Total	7,276	6 , 312	47,778

```
371 president presfirst presidna3
(47,778 missing values generated)
(3,943 real changes made)
(3,261 real changes made)
(3,689 real changes made)
(2,035 real changes made)
(3,086 real changes made)
(1,526 real changes made)
(2,640 real changes made)
(1,142 real changes made)
(4,841 real changes made)
(2,376 real changes made)
(4,304 real changes made)
(4,304 real changes made)
(4,324 real changes made)
(998 real changes made)
```

presfirst	 1	2	Survey wave 3	4	5	Total
0 1	3,261 3,943 1,041	2,035 3,689 1,351	1,526 3,086 1,187	1,142 2,640 955	2,376 4,841 1,117	13,141 26,827 7,810
Total	8,245	7,075	5 , 799	4,737	8,334	47,778

presfirst	Survey	wave 7	Total
0 1	1,803 4,304 1,169	998 4,324 990	13,141 26,827 7,810
Total	7,276	6 , 312	47,778

```
372 president vplast vpname1
```

(47,778 missing values generated)

(3,387 real changes made)
(3,817 real changes made)
(3,202 real changes made)
(2,522 real changes made)
(2,710 real changes made)
(1,902 real changes made)
(2,286 real changes made)
(1,496 real changes made)
(4,680 real changes made)
(2,537 real changes made)

(3,974 real changes made)
(2,133 real changes made)
(3,053 real changes made)

(2,269 real changes made)

			Survey wave	<u>)</u>		
vplast	1	2	_ 3	4	5	Total
0 1	3,817 3,387 1,041	2,522 3,202 1,351	1,902 2,710 1,187	1,496 2,286 955	2,537 4,680 1,117	16,676 23,292 7,810
Total	8,245	7 , 075	5 , 799	4,737	8,334	47,778

vplast	Survey 6	wave 7	Total
0 1	2,133 3,974 1,169	2,269 3,053 990	16,676 23,292 7,810
Total	+ 7 , 276	6,312	47,778

```
373 president vpfirst vpname3
```

(47,778 missing values generated) (2,587 real changes made)

(4,617 real changes made) (2,589 real changes made)

(3,135 real changes made)

(2,259 real changes made) (2,353 real changes made)

(1,932 real changes made)

(1,850 real changes made)

(3,902 real changes made)

(3,315 real changes made)

(3,451 real changes made)

(2,656 real changes made) (1,438 real changes made)

(3,884 real changes made)

			Survey wave	<u> </u>		
vpfirst	1	2	3	4	5	Total
0 1 •	4,617 2,587 1,041	3,135 2,589 1,351	2,353 2,259 1,187	1,850 1,932 955	3,315 3,902 1,117	21,810 18,158 7,810
Total	8,245	7 , 075	5 , 799	4,737	8 , 334	47,778

	Survey	wave	
vpfirst	6	7	Total
	+		+
0	2,656	3,884	21,810
1	3,451	1,438	18,158
	1,169	990	7,810
Total	7,276	6 , 312	47,778

375 //count president questions correct

376 gen presvp=preslast+presfirst+vplast+vpfirst (7,810 missing values generated)

377 tab presvp wave, missing

			Survey wave	<u> </u>		
presvp	1 +	2	3	4	5	Total
0 1 2 3 4	459 1,940 1,807 957 1,2,041	295 1,184 1,241 807 2,197	245 805 1,028 611 1,923	170 638 797 488 1,689	361 1,100 1,441 1,017 3,298	2,214 6,991 9,047 6,214 15,502
Total	1,041 + 8 245	1,351 7,075	1,187 5 799	955 4 737	1,117 8 334	7,810 + 47,778
Total	8,245	7,075	5 , 799	4,737	8 , 334	47,778

```
378
379
380
381 //add categories for proxy says can't speak to sp or proxy says can speak but
  > sp unble to answer
382 forvalues w=1/$w{
                replace presvp=-2 if presvp==. & speaktosp==2 & wave==`w'
replace presvp=-3 if presvp==. & (preslast==. | presfirst==. | vpla
    2.
    3.
  > st==. | ///
                       vpfirst==. ) & speaktosp==1 & wave==`w'
    4. }
  (284 real changes made)
  (121 real changes made)
  (250 real changes made)
  (82 real changes made)
  (197 real changes made)
  (75 real changes made)
  (182 real changes made)
  (73 real changes made)
  (237 real changes made)
  (122 real changes made)
(220 real changes made)
  (83 real changes made)
  (170 real changes made)
  (74 real changes made)
```

383 tab presvp wave, missing

			Survey wave			
presvp	1	2	3	4	5	Total
-3 -2 0 1 2 3 4	121 284 459 1,940 1,807 957 2,041	82 250 295 1,184 1,241 807 2,197	75 197 245 805 1,028 611 1,923 915	73 182 170 638 797 488 1,689	122 237 361 1,100 1,441 1,017 3,298 758	630 1,540 2,214 6,991 9,047 6,214 15,502 5,640
Total	8,245	7,075	5,799	4,737	8,334	47,778

	Survey	wave	
presvp	6	7	Total
	+		+
-3	83	74	630
-2	220	170	1,540
0	279	405	2,214
1	880	444	6,991
2	1,190	1,543	9,047
3	777	1,557	6,214
4	2,981	1,373	15,502
·	866	746	5,640
Total	7,276	6,312	47,778

```
384
385 //new version president sum measure, without the extra categories
386 gen presvpr=presvp
 (5,640 missing values generated)
387 replace presvpr=. if presvp==-2
  (1,540 real changes made, 1,540 to missing)
388 replace presvpr=0 if presvp==-3
  (630 real changes made)
390 //total orientation domain, date and president questions
391 gen date_prvp=date_sumr+presvpr
  (7,180 missing values generated)
392 tab date prvp, missing
   date_prvp |
                   Freq.
                             Percent
           Total | 47,778
                             100.00
393
394 //executive function domain, clock drawing score
395 gen clock scorer=.
  (47,778 \text{ missing values generated})
396 forvalues w=1/$w{
             replace clock_scorer=dclkdraw if wave==`w'
              replace clock scorer=. if inlist(dclkdraw,-2,-9) & wave==`w' //miss
 > ing
              replace clock scorer=0 if inlist(dclkdraw,-3,-4,-7) & wave==`w' //r
 > efused, unable
   5. //assign mean values where missing response
397
          replace clock scorer=2 if dclkdraw==-9 & speaktosp==1 & wave==`w' //pr
 > oxy
              replace clock scorer=3 if dclkdraw==-9 & speaktosp==-1 & wave==`w'
 > //self
   7.
  (8,245 real changes made)
  (347 real changes made, 347 to missing)
  (344 real changes made)
  (4 real changes made)
  (59 real changes made)
  (7,075 real changes made)
  (357 real changes made, 357 to missing)
  (195 real changes made)
  (81 real changes made)
  (26 real changes made)
  (5,799 real changes made)
  (278 real changes made, 278 to missing)
  (147 real changes made)
  (72 real changes made)
  (9 real changes made)
  (4,737 real changes made)
  (256 real changes made, 256 to missing)
  (110 real changes made)
  (68 real changes made)
  (6 real changes made)
  (8,334 real changes made)
  (540 real changes made, 540 to missing)
```

```
(139 real changes made)
(113 real changes made)
(11 real changes made)
(7,276 real changes made)
(480 real changes made, 480 to missing)
(110 real changes made)
(73 real changes made)
(10 real changes made)
(6,312 real changes made)
(399 real changes made, 399 to missing)
(69 real changes made)
(69 real changes made)
(2 real changes made)
```

398 tab clock scorer wave, missing //left as -1 if inapplicable

clock scor			Survey wave	:		
er	1	2	3	4	5	Total
-1 0 1 2 3 4 5	636 416 332 950 1,991 2,673 963 284	1,019 250 183 869 1,303 2,246 955 250	915 186 128 606 1,042 1,891 834	700 153 125 447 847 1,160 1,123 182	579 204 265 954 1,563 2,536 1,817 416	5,126 1,501 1,406 5,152 8,999 14,677 8,863 2,054
Total	8,245	7,075	5 , 799	4,737	8,334	47,778

clock_scor er	Survey 6	wave 7	Total
-1 0 1 2 3 4 5	689 170 197 734 1,183 2,249 1,657	588 122 176 592 1,070 1,922 1,514 328	5,126 1,501 1,406 5,152 8,999 14,677 8,863 2,054
Total	+ 7 , 276	6 , 312	47,778

```
399
400 //memory domain, word recall, uses derived scores, not raw responses
401 capture program drop recall
402 program define recall
                 args newv oldv
gen `newv'=.
    2.
                 forvalues w=1/$w{
    replace `newv'=`oldv' if wave==`w'
    replace `newv'=. if inlist(`oldv',-2,-1) & wave==`w' //n/a
    3.
    4.
  > or not asked
                           replace `newv'=0 if inlist(`oldv',-7,-3) & wave==`w' //refu
  > sed or unable
    7.
8.
                 tab `newv' wave, missing
    9. end
```

```
403
404 recall irecall dwrdimmrc
  (47,778 missing values generated)
(8,245 real changes made)
  (920 real changes made, 920 to missing)
  (261 real changes made)
  (7,075 real changes made)
(1,269 real changes made, 1,269 to missing)
  (170 real changes made)
  (5,799 real changes made)
(1,112 real changes made, 1,112 to missing)
  (141 real changes made)
  (4,737 real changes made)
  (882 real changes made, 882 to missing) (117 real changes made)
  (8,334 real changes made)
  (995 real changes made, 995 to missing)
  (194 real changes made)
  (7,276 real changes made)
  (1,086 real changes made, 1,086 to missing)
  (142 real changes made)
  (6,312 real changes made)
  (916 real changes made, 916 to missing)
  (117 real changes made)
```

			Survey wave			
irecall	1	2	3	4	5	Total
	+ I 0	0	0	0	9	1 9
0	392	261	212	162	283	1,744
1	169	124	101	78	157	892
2	496	344	252	203	444	2,384
3	937	738	608	485	919	5,054
4	1,539	1,163	911	781	1,417	8,038
5	1,710	1,294	1,090	866	1,728	9,381
6	1,262	1,014	856	714	1,322	7,360
7	594	562	431	376	745	3,879
8	184	221	194	142	242	1,427
9	J 36	51	27	40	66	347
10	1 6	34	5	8	7	83
•	920	1,269	1,112	882	995	7,180
Total	8,245	7 , 075	5 , 799	4,737	8 , 334	47,778

	Survey	wave	
irecall	[6	7	Total
-9 0 1 2 3 4 5 6 7 8	0 230 144 336 728 1,185 1,454 1,172 609 253	0 204 119 309 639 1,042 1,239 1,020 562 191	9 1,744 892 2,384 5,054 8,038 9,381 7,360 3,879 1,427
9 10 •	68 11 1,086	59 12 916	347 83 7,180
Total	7,276	6,312	47,778

```
405 recall drecall dwrddlyrc
  (47,778 missing values generated)
  (8,245 real changes made)
  (920 real changes made, 920 to missing)
  (286 real changes made)
  (7,075 real changes made)
  (1,269 real changes made, 1,269 to missing)
  (204 real changes made)
  (5,799 real changes made)
  (1,112 real changes made, 1,112 to missing) (155 real changes made)
  (4,737 real changes made)
  (882 real changes made, 882 to missing)
  (125 real changes made)
  (8,334 real changes made)
  (995 real changes made, 995 to missing)
  (215 real changes made)
(7,276 real changes made)
  (1,086 real changes made, 1,086 to missing)
  (155 real changes made)
  (6,312 real changes made)
  (916 real changes made, 916 to missing)
  (125 real changes made)
```

			Survey wave	:		
drecall	1	2	_ 3	4	5	Total
-9 0	0 1,395 589	0 1,021 413	0 832 305	0 656 270	9 1,228 525	9 6,937 2,904
2 3	876 1,216	623 924	479 734	374 634	744 1 , 184	2,904 4,258 6,475
4 5	1,411 1,036	1,104 911	921 731	695 630	1,391 1,176	7,739 6,432
6 7 8	526 195 61	515 203 74	426 182 51	363 159 54	666 305 81	3,632 1,542 492
9 10	19 1 920	13 5 1,269	20 6 1,112	20 0 882	30 0 995	160 18 7,180
Total	8,245	7,075	5,799	4,737	8,334	47,778

	Survey	wave	
drecall	6	7	Total
-9 0 1 2 3 4 5 6 7 8 9	0 991 418 596 950 1,171 1,058 615 260 98 27	0 814 384 566 833 1,046 890 521 238 73 31	6,937 2,904 4,258 6,475 7,739 6,432 3,632 1,542 492 160
·	1,086	916	7,180
Total	7,276	6 , 312	47,778

```
406
407 gen wordrecall0 20=irecall+drecall
 (7,180 missing values generated)
409 //overall cognitive domain score, assigns cutoffs for each of the domain varia
 > bles
410 gen clock65=0 if clock_scorer>1 & clock_scorer<=5
 (10,087 missing values generated)
411 replace clock65=1 if inlist(clock scorer,0,1)
  (2,907 real changes made)
413 gen word65=0 if wordrecall0 20>3 & wordrecall0 20<=20
  (12,837 missing values generated)
414 replace word65=1 if inlist(wordrecall0_20,0,1,2,3)
  (5,648 real changes made)
416 gen datena65=0 if date_prvp>3 & date_prvp<=8
  (11,292 missing values generated)
417 replace datena65=1 if inlist(date_prvp,0,1,2,3)
  (4,112 real changes made)
418
419 gen domain65=clock65+word65+datena65
  (7,189 missing values generated)
420 tab domain65 wave, missing
```

domain65	1	2	Survey wave	4	5	Total
0 1 2 3	5,577 1,071 417 260 920	4,553 784 366 103 1,269	3,738 541 326 82 1,112	2,919 551 300 85 882	5,906 866 425 133 1,004	32,156 5,065 2,508 860 7,189
Total	8,245	7 , 075	5 , 799	4,737	8,334	47,778

domain65	Survey	wave 7	Total
0 1 2 3	5,072 654 358 106 1,086	4,391 598 316 91	32,156 5,065 2,508 860 7,189
Total	7,276	6 , 312	47,778

```
421
422 //now apply to dementia 3 category variable
423 replace dem_3_cat=1 if dem_3_cat==. & inlist(speaktosp,1,-1) & inlist(domain65 > ,2,3)
    (1,873 real changes made)
```

- 424 replace dem_3_cat=2 if dem_3_cat==. & inlist(speaktosp,1,-1) & domain65==1 (4,524 real changes made)
- 425 replace dem_3_cat=3 if dem_3_cat==. & inlist(speaktosp,1,-1) & domain65==0 (31,481 real changes made)

426

- 427 la def dem3 1"Probable dementia" 2"Possible dementia" 3"No dementia"
- 428 la val dem_3_cat dem3
- 429 la var dem 3 cat "Dementia likelihood, 3 categories"

430

431 tab dem_3_cat wave, missing

Dementia likelihood, 3 categories	 	Surve 2	y wave	4	Total
-1 Probable dementia Possible dementia No dementia	636 1,038 996 5,575 0	1,019 840 675 4,540	915 718 478 3,688	700 662 498 2,873	5,640 5,851 4,524 31,743 20
Total	8,245	7,075	5 , 799	4,737	47,778

Dementia likelihood, 3 categories	 5	Survey wave	7	Total
Probable dementia Possible dementia No dementia	758 961 779 5,823	866 862 572 4,975	746 770 526 4,269	5,640 5,851 4,524 31,743
Total	8,334	7 , 276	6,312	47,778

432

- 433 gen dem_2_cat=1 if inlist(dem_3_cat,1,2) (37,403 missing values generated)
- 434 replace dem_2_cat=0 if dem_3_cat==3 (31,743 real changes made)
- 435 la var dem 2 cat "Ind prob/possible dementia"
- 436 tab dem_2_cat wave, missing

Ind prob/possi ble	 - 		Survey wave			
dementia	1	2	3	4	5	Total
0 1 •	5,575 2,034 636	4,540 1,515 1,020	3,688 1,196 915	2,873 1,160 704	5,823 1,740 771	31,743 1 10,375 5,660
Total	8,245	7 , 075	5 , 799	4,737	8,334	47,778

(47,778 missing values generated)

440 forvalues $w=1/$w{}$

2. replace memory=ratememry if wave==`w' & proxy ivw==0 //self interview 3. replace memory=memrygood if wave==`w' & proxy ivw==1 //proxy interview

441 }

(7,026 real changes made) (583 real changes made) (5,595 real changes made) (964 real changes made)

(4,510 real changes made) (897 real changes made)

(3,719 real changes made) (722 real changes made) (7,093 real changes made)

(779 real changes made) (6,002 real changes made)

(894 real changes made)

(5,266 real changes made) (759 real changes made)

442 replace memory=. if inlist(memory,-1) (319 real changes made, 319 to missing)

443 la var memory "Rate memory 1=Excell, 5=Poor"

444 la def mem 1"Excellent" 2"Very good" 3"Good" 4"Fair" 5"Poor"

445 la val memory mem

446 tab memory wave, missing

Rate memory 1=Excell, 5=Poor	1	2	Survey wave	4	5	Total
-8	2	17	20	15	13	99
-7	4	5	2	0	0	14
Excellent	912	685	486	335	770	4,233
Very good	2,290	1,837	1,463	1,153	2,249	12,499
Good	2,615	2,269	1,891	1,656	2,799	15,984
Fair	1,314	1,180	1,026	875	1,470	8,398
Poor	472	439	402	388	562	3,263
•	636	643	509	315	471	3,288
Total	8,245	7,075	5 , 799	4,737	8 , 334	47,778

```
447
```

- 448 notes memory: ratememry memrygood
- 449 notes memory: Rate your memory.
- 450 notes memory: Located in NHATS Setup, under Part 4.
- 451 notes memory: Updated: 04/17/19-MH
- 452 ***************
- 453 //total number self reported medical conditions, ever
- 454 //note that depression and anxeity are from the specific interview questions
- 455 //the others are all if the person has reported the condition in any interview > wave
- 456 egen sr_numconditions1=anycount(sr_ami_ever sr_stroke_ever sr_cancer_ever ///

 > sr_hip_ever sr_heart_dis_ever sr_htn_ever sr_ra_ever sr_osteoprs_ever
 - > /// > sr_diabetes_ever sr_lung_dis_ever sr_dementia_ever sr_phq2_depressed /
- 457 replace sr_numconditions1=. if ivw_type!=1 (5,640 real changes made, 5,640 to missing)
- 458 la var sr_numconditions1 "Count medical conditions"
- 459 tab sr numconditions1 wave, missing

Count medical conditions	 	2	Survey wave	4	5	Total
0 1 2 3 4 5 6 7 8 9 10 11 12	570 1,163 1,685 1,606 1,107 728 389 213 99 32 15 2 0 0 636	357 840 1,287 1,275 931 652 379 185 84 40 19 4	233 613 957 1,029 830 578 298 183 90 43 20 8 20	161 444 746 854 719 509 285 175 83 37 15 7	449 1,003 1,556 1,601 1,254 791 492 235 113 47 20 12 3 0	2,311 5,390 8,520 8,940 6,908 4,702 2,668 1,489 714 300 127 52 16
Total	8,245	7,075	5,799	4,737	8,334	47,778

Count medical conditions	 Survey 6	wave 7	Total
0 1 2 3 4 5 6 7 8 9 10 11 12 13	310 743 1,240 1,382 1,103 753 431 242 122 52 20 9 1 3 0 866	231 584 1,049 1,193 964 691 394 256 123 49 18 10 3 746	2,311 5,390 8,520 8,940 6,908 4,702 2,668 1,489 714 300 127 52 16 1
Total	7,276	6,312	47,778

- 460 notes sr numconditions1: Counting number of medical conditions.
- 461 notes sr numconditions1: Located in NHATS Setup, under Part 4.
- 462 notes sr numconditions1: Updated: 04/17/19-MH
- 464 local ivars srh srh_fp sr_ami_raw sr_ami_ever sr_ami_new sr_stroke_raw sr_stro > ke_ever sr_stroke_new sr_cancer_raw sr_cancer_ever sr_cancer_new /7/ > sr_hip_raw sr_hip_ever sr_hip_new sr_heart_dis_raw sr_heart_dis_ever sr_heart_

 - > dis_new sr_htn_raw sr_htn_ever sr_htn_new sr_ra_raw /7/
 > sr_ra_ever sr_ra_new sr_osteoprs_raw sr_osteoprs_ever sr_osteoprs_new sr_diabe
 > tes_raw sr_diabetes_ever sr_diabetes_new sr_lung_dis_raw ///
 > sr_lung_dis_ever sr_lung_dis_new sr_dementia_raw sr_dementia_ever sr_dementia_
- 465 foreach w in `ivars'{
 2. tab `w'
 3. }

Self |

reported health, categorical	Freq.	Percent	Cum.
-8 -7 Excellent Very good Good Fair Poor	31 2 4,657 11,993 14,294 8,450 2,711	0.07 0.00 11.05 28.46 33.92 20.05 6.43	0.07 0.08 11.13 39.59 73.51 93.57
Total	42,138	100.00	

Self reported health=fair /poor	Freq.	Percent	Cum.
-8 -7 0 1	31 2 30,944 11,161	0.07 0.00 73.43 26.49	0.07 0.08 73.51 100.00
Total	42,138	100.00	

Self report Heart Attack, Raw	 Freq.	Percent	Cum.
-8 -7 0 1	58 1 39,550 2,529	0.14 0.00 93.86 6.00	0.14 0.14 94.00 100.00
Total	+ 42 , 138	100.00	
Ever Self report Heart Attack	 Freq.	Percent	Cum.
-8 -7 0 1	120 3 35,023 6,992	0.28 0.01 83.12 16.59	0.28 0.29 83.41 100.00
Total	42,138	100.00	
Self report Heart Attack since prev	 		
year	Freq. +	Percent	Cum.
-8 -7 0 1	50 1 33,113 1,365	0.14 0.00 95.90 3.95	0.14 0.15 96.05 100.00
Total	34,529	100.00	
Self report Stroke, Raw	 Freq. +	Percent	Cum.
-8 -7 0 1	60 1 39,924 2,153	0.14 0.00 94.75 5.11	0.14 0.14 94.89 100.00
Total	+ 42 , 138	100.00	
Ever Self report Stroke	 Freq.	Percent	Cum.
-8 -7 0 1	122 3 36,555 5,458	0.29 0.01 86.75 12.95	0.29 0.30 87.05 100.00
Total	+ 42 , 138	100.00	
Self report Stroke since prev year	 Freq.	Percent	Cum.
-8 -7 0 1	52 1 33,215 1,261	0.15 0.00 96.19 3.65	0.15 0.15 96.35 100.00
Total	+ 34 , 529	100.00	

0-16	ı		
Self report Cancer, Raw	 Freq. +	Percent	Cum.
-8 -7 0 1	37 37,348 4,750	0.09 0.01 88.63 11.27	0.09 0.09 88.73 100.00
Total	42,138	100.00	
Ever Self report Cancer	 Freq.	Percent	Cum.
-8 -7 0 1	85 10 29,831 12,212	0.20 0.02 70.79 28.98	0.20 0.23 71.02 100.00
Total	42,138	100.00	
Self report Cancer since prev year	 Freq.	Percent	Cum.
-8 -7 0 1	35 2 31,695 2,797	0.10 0.01 91.79 8.10	0.10 0.11 91.90 100.00
Total	34,529	100.00	
Self report Hip Fracture, Raw	 Freq.	Percent	Cum.
-8 -7 0 1	15 1 41,145 977	0.04 0.00 97.64 2.32	0.04 0.04 97.68 100.00
Total	42,138	100.00	
Ever Self report Hip Fracture (since age 50)	 Freq.	Percent	Cum.
-8 -7 0 1	34 39,564 2,537	0.08 0.01 93.89 6.02	0.08 0.09 93.98 100.00
Total	42,138	100.00	
Self report Hip Fracture since prev year	 Freq.	Percent	Cum.
-8 -7 0 1	11 1 33,919 598	0.03 0.00 98.23 1.73	0.03 0.03 98.27 100.00
Total	+ 34 , 529	100.00	

sr_heart_d	dis_raw		Freq.	Percent	Cum.
Previously re	-8 -7 No Yes eported		77 1 32,845 2,844 6,371	0.18 0.00 77.95 6.75 15.12	0.18 0.19 78.13 84.88 100.00
	Total		42,138	100.00	
Self report Heart Disease		req.	Percent	Cum.	
-8 -7 0 1		77 1 845 215	0.18 0.00 77.95 21.87	0.18 0.19 78.13 100.00	
Total	42,	138	100.00		
Self report Heart Disease since prev year		req.	Percent	Cum.	
-8 -7 0 1		61 1 034 433	0.18 0.00 95.67 4.15	0.18 0.18 95.85 100.00	
Total	34,	529	100.00		
sr_h	ntn_raw		Freq.	Percent	Cum.
Previously re	-8 No Yes eported	 	43 12,220 8,331 21,544	0.10 29.00 19.77 51.13	0.10 29.10 48.87 100.00
	Total		42,138	100.00	
Self report high blood pressure		req.	Percent	Cum.	
-8 0 1		43 220 875	0.10 29.00 70.90	0.10 29.10 100.00	
Total	42,	138	100.00		
Self report high blood pressure since prev year	 F1	req.	Percent	Cum.	
-8 0 1		33 273 223	0.10 90.57 9.33	0.10 90.67 100.00	
Total	34,	529	100.00		

sr_	_ra_raw	<u> </u>	Freq.	Percent	Cum.
Previously re	-8 -7 No Yes eported		44 1 15,616 7,551 18,926	0.10 0.00 37.06 17.92 44.91	0.10 0.11 37.17 55.09 100.00
	Total		42,138	100.00	
Self report arthritis	 F1	req.	Percent	Cum.	
-8 -7 0 1		44 1 616 477	0.10 0.00 37.06 62.83	0.10 0.11 37.17 100.00	
Total	42,	138	100.00		
Self report arthritis since prev year	 Fi	req.	Percent	Cum.	
-8	+ !	- 29	0.08	0.08	
0		197	90.35 9.57	90.43	
Total	34,	529	100.00		
sr_osteop	prs_raw		Freq.	Percent	Cum.
Previously re	-8 -7 No Yes eported		131 1 31,161 3,165 7,680	0.31 0.00 73.95 7.51 18.23	0.31 0.31 74.26 81.77 100.00
	Total	 	42,138	100.00	
Self report osteoporosi s	 F1	req.	Percent	Cum.	
-8 -7 0 1		131 1 161 845	0.31 0.00 73.95 25.74	0.31 0.31 74.26 100.00	
Total	42,	138	100.00		
Self report osteoporosi s since prev year	 F1	req.	Percent	Cum.	
-8 -7 0 1		104 1 818 606	0.30 0.00 95.04 4.65	0.30 0.30 95.35 100.00	
Total	34,	529	100.00		

sr_diabe	tes_raw		Freq.	Percent	Cum.
Previously r	-8 -7 No Yes eported		22 2 30,435 3,355 8,324	0.05 0.00 72.23 7.96 19.75	0.05 0.06 72.28 80.25 100.00
	Total		42,138	100.00	
Self report diabetes	 F1	req.	Percent	Cum.	
-8 -7 0 1		22 2 435 679	0.05 0.00 72.23 27.72	0.05 0.06 72.28 100.00	
Total	42,	,138	100.00		
Self report diabetes since prev year	 F1	req.	Percent	Cum.	
-8 -7 0 1		20 1 ,078 ,430	0.06 0.00 95.80 4.14	0.06 0.06 95.86 100.00	
Total	34,	,529	100.00		
sr_lung_	dis_raw		Freq.	Percent	Cum.
Previously r	-8 -7 No Yes eported	 	30 1 34,367 2,362 5,378	0.07 0.00 81.56 5.61 12.76	0.07 0.07 81.63 87.24 100.00
	Total	+ 	42,138	100.00	
Self report Lung Disease	 F:	req.	Percent	Cum.	
-8 -7 0		30 1 ,367 ,740	0.07 0.00 81.56 18.37	0.07 0.07 81.63 100.00	
Total	1 42,	138	100.00		
Self report Lung Disease since prev year	 F1	req.	Percent	Cum.	
	+	25	0.07	0.07	
-7 0 1		1 ,295 ,208	0.00 96.43 3.50	0.08 96.50 100.00	
Total	34,	,529	100.00		

sr_dement	tia_raw		Freq.	Percent	Cum.
Previously re	-8 -7 No Yes eported		33 2 38,787 1,371 1,945	0.08 0.00 92.05 3.25 4.62	0.08 0.08 92.13 95.38 100.00
	Total		42,138	100.00	
Self report Dementia		eq.	Percent	Cum.	
1	3,	316	7.87	0.08 0.08 92.13 100.00	
			100.00		
	 Fre			Cum. 0.08	
-7 0 1	33 ,	2 586 914	0.01 97.27 2.65	0.08 0.08 97.35 100.00	
Total	34,	529	100.00		
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