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-----
      name: <unnamed>
      log:  E:\nhats\nhats_code\NHATS data setup\logs\3_nhats_cleaning_18_Apr_
> 2019.smcl
      log type: text
      opened on: 18 Apr 2019, 13:08:06

1 .
2 .
3 .
4 . cd "${work}"
   E:\nhats\data\NHATS working data

5 .
6 . *****
7 .
8 . use round_1_${w}_cleanv1.dta, clear

9 .
10. *****
11. tab wave, missing

Survey wave |      Freq.      Percent      Cum.
-----+-----
          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

12.
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'
      4. }

R1 HC1 OVERALL |
      HEALTH |
      CONDITION |      Freq.      Percent      Cum.
-----+-----
      -9 Missing |      168       2.04      2.04
      -8 DK      |        6       0.07      2.11
-1 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
-----+-----
        Total   |     8,245     100.00
(8,245 real changes made)

```

|                           |       |         |        |
|---------------------------|-------|---------|--------|
| R1 HC1 OVERALL            |       |         |        |
| HEALTH                    |       |         |        |
| CONDITION                 | Freq. | Percent | Cum.   |
| -9 Missing                | 190   | 2.69    | 2.69   |
| -8 DK                     | 6     | 0.08    | 2.77   |
| -1 Inapplicable           | 829   | 11.72   | 14.49  |
| 1 EXCELLENT               | 698   | 9.87    | 24.35  |
| 2 VERY GOOD               | 1,709 | 24.16   | 48.51  |
| 3 GOOD                    | 2,000 | 28.27   | 76.78  |
| 4 FAIR                    | 1,220 | 17.24   | 94.02  |
| 5 POOR                    | 423   | 5.98    | 100.00 |
| Total                     | 7,075 | 100.00  |        |
| (7,075 real changes made) |       |         |        |

|                           |       |         |        |
|---------------------------|-------|---------|--------|
| R1 HC1 OVERALL            |       |         |        |
| HEALTH                    |       |         |        |
| CONDITION                 | Freq. | Percent | Cum.   |
| -9 Missing                | 179   | 3.09    | 3.09   |
| -8 DK                     | 2     | 0.03    | 3.12   |
| -1 Inapplicable           | 736   | 12.69   | 15.81  |
| 1 EXCELLENT               | 522   | 9.00    | 24.81  |
| 2 VERY GOOD               | 1,411 | 24.33   | 49.15  |
| 3 GOOD                    | 1,658 | 28.59   | 77.74  |
| 4 FAIR                    | 985   | 16.99   | 94.72  |
| 5 POOR                    | 306   | 5.28    | 100.00 |
| Total                     | 5,799 | 100.00  |        |
| (5,799 real changes made) |       |         |        |

|                           |       |         |        |
|---------------------------|-------|---------|--------|
| R1 HC1 OVERALL            |       |         |        |
| HEALTH                    |       |         |        |
| CONDITION                 | Freq. | Percent | Cum.   |
| -9 Missing                | 156   | 3.29    | 3.29   |
| -8 DK                     | 3     | 0.06    | 3.36   |
| -7 RF                     | 1     | 0.02    | 3.38   |
| -1 Inapplicable           | 544   | 11.48   | 14.86  |
| 1 EXCELLENT               | 406   | 8.57    | 23.43  |
| 2 VERY GOOD               | 1,225 | 25.86   | 49.29  |
| 3 GOOD                    | 1,379 | 29.11   | 78.40  |
| 4 FAIR                    | 773   | 16.32   | 94.72  |
| 5 POOR                    | 250   | 5.28    | 100.00 |
| Total                     | 4,737 | 100.00  |        |
| (4,737 real changes made) |       |         |        |

|                           |       |         |        |
|---------------------------|-------|---------|--------|
| R1 HC1 OVERALL            |       |         |        |
| HEALTH                    |       |         |        |
| CONDITION                 | Freq. | Percent | Cum.   |
| -9 Missing                | 179   | 2.15    | 2.15   |
| -8 DK                     | 8     | 0.10    | 2.24   |
| -1 Inapplicable           | 579   | 6.95    | 9.19   |
| 1 EXCELLENT               | 855   | 10.26   | 19.45  |
| 2 VERY GOOD               | 2,116 | 25.39   | 44.84  |
| 3 GOOD                    | 2,593 | 31.11   | 75.95  |
| 4 FAIR                    | 1,550 | 18.60   | 94.55  |
| 5 POOR                    | 454   | 5.45    | 100.00 |
| Total                     | 8,334 | 100.00  |        |
| (8,334 real changes made) |       |         |        |

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

(7,276 real changes made)

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

(6,312 real changes made)

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

```

26.
27. gen srh_fp=1 if srh==4 | srh==5
   (36,617 missing values generated)

28. replace srh_fp=0 if inlist(srh,1,2,3)
   (30,944 real changes made)

29. replace srh_fp=-7 if srh == -7
   (2 real changes made)

30. replace srh_fp=-8 if srh == -8
   (31 real changes made)

31. la var srh_fp "Self reported health=fair/poor"

32. tab srh_fp srh, missing

```

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

| Self reported health=fair/poor | Self reported health, categorical |       | .     | Total  |
|--------------------------------|-----------------------------------|-------|-------|--------|
|                                | Fair                              | Poor  |       |        |
| -8                             | 0                                 | 0     | 0     | 31     |
| -7                             | 0                                 | 0     | 0     | 2      |
| 0                              | 0                                 | 0     | 0     | 30,944 |
| 1                              | 8,450                             | 2,711 | 0     | 11,161 |
| .                              | 0                                 | 0     | 5,640 | 5,640  |
| Total                          | 8,450                             | 2,711 | 5,640 | 47,778 |

```

33.
34. *****
35. //Self-Report Disease
36. *****
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
    1.     args dis num
    2.
46.     gen sr_`dis'_raw=.
        3.     forvalues w=1/$w{
        4.         replace sr_`dis'_raw=1 if disescn`num'==1 & wave==`w'
        5.         replace sr_`dis'_raw=0 if disescn`num'==2 & wave==`w'
        6.         replace sr_`dis'_raw=-7 if disescn`num'==7 & wave==`w'
        7.         replace sr_`dis'_raw=-8 if disescn`num'==8 & wave==`w'
        8.     }
        9.     //create two new variables from this...
47.     gen sr_`dis'_ever=sr_`dis'_raw
        10.    replace sr_`dis'_ever=. if inrange(wave, 2, $w) & sr_`dis'_raw==0 /
> /set to missing if report no new wave
        11.    replace sr_`dis'_ever=-7 if sr_`dis'_raw == -7
        12.    replace sr_`dis'_ever=-8 if sr_`dis'_raw == -8
        13.
48.     sort spid wave
        14.    by spid (wave): carryforward sr_`dis'_ever if ivw_type==1 , replace
        15.
49.     replace sr_`dis'_ever = sr_`dis'_raw if inrange(wave,2,$w) & sr_`dis'_
> ever == . & sr_`dis'_raw != .
        16.
50.     gen sr_`dis'_new=sr_`dis'_raw if inrange(wave,2,$w)
        17.
51.     end

52.
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 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 real changes made)
(13,249 missing values generated)
```

```
57.
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).
74.
75. notes sr_ami_ever: sr_ami_raw
76. notes sr_ami_ever: If ever had a heart attack or myocardial infarction (self-r
  > eport).
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).
81.
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/$w{
    2.         replace sr_hip_raw=1 if brokebon1==1 & wave=='w'
    3.         replace sr_hip_raw=0 if brokebon1==2 & wave=='w'
    4.         replace sr_hip_raw = -7 if brokebon1==7 & wave=='w'
    5.         replace sr_hip_raw = -8 if brokebon1==8 & wave=='w'
    6. }
    (379 real changes made)
    (7,226 real changes made)
    (0 real changes made)
    (4 real changes made)
    (78 real changes made)
    (5,976 real changes made)
    (0 real changes made)
    (2 real changes made)
    (86 real changes made)
    (4,795 real changes made)
    (1 real change made)
    (2 real changes made)
    (57 real changes made)
    (3,979 real changes made)
    (0 real changes made)
    (1 real change made)
    (223 real changes made)
    (7,350 real changes made)
    (0 real changes made)
    (3 real changes made)
    (87 real changes made)
    (6,320 real changes made)
    (0 real changes made)
    (3 real changes made)
    (67 real changes made)
    (5,499 real changes made)
    (0 real changes made)
    (0 real changes made)
92. //create two new variables from this...
93. gen sr_hip_ever=sr_hip_raw
    (5,640 missing values generated)
94. replace sr_hip_ever=. if (inrange(wave,2,$w)) & sr_hip_raw==0 //set to missing
    > if report no new wave
    (33,919 real changes made, 33,919 to missing)
95.
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)

100
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"

105
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).

112
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{
        2. notes `x': Located in NHATS Setup, under Part 4.
        3. notes `x': Updated: 04/15/19-MH
        4. }

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
        5. }

```

| Self<br>report<br>Heart<br>Attack,<br>Raw | Survey wave |       |       |       |       | Total  |
|---|-------------|-------|-------|-------|-------|--------|
|   | 1           | 2     | 3     | 4     | 5     |        |
| -8  | 8           | 3     | 7     | 6     | 18    | 58     |
| -7  | 0           | 0     | 1     | 0     | 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<br>report<br>Heart<br>Attack,<br>Raw | Survey wave |       | Total  |
|---|-------------|-------|--------|
|   | 6           | 7     |        |
| -8  | 7           | 9     | 58     |
| -7  | 0           | 0     | 1      |
| 0   | 6,243       | 5,407 | 39,550 |
| 1   | 160         | 150   | 2,529  |
| Total                                     | 6,410       | 5,566 | 42,138 |

|  |             |       |       |       |       |        |
|--|-------------|-------|-------|-------|-------|--------|
| Ever Self<br>report<br>Heart<br>Attack | Survey wave |       |       |       |       |        |
|  | 1           | 2     | 3     | 4     | 5     | Total  |
| -8                                     | 8           | 8     | 12    | 10    | 27    | 120    |
| -7                                     | 0           | 0     | 1     | 1     | 1     | 3      |
| 0                                      | 6,437       | 5,040 | 4,025 | 3,289 | 6,343 | 35,023 |
| 1                                      | 1,164       | 1,008 | 846   | 737   | 1,205 | 6,992  |
| Total                                  | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

|  |             |       |        |
|--|-------------|-------|--------|
| Ever Self<br>report<br>Heart<br>Attack | Survey wave |       |        |
|  | 6           | 7     | Total  |
| -8                                     | 27          | 28    | 120    |
| -7                                     | 0           | 0     | 3      |
| 0                                      | 5,311       | 4,578 | 35,023 |
| 1                                      | 1,072       | 960   | 6,992  |
| Total                                  | 6,410       | 5,566 | 42,138 |

|   |             |       |       |       |       |        |
|---|-------------|-------|-------|-------|-------|--------|
| Self<br>report<br>Heart<br>Attack<br>since prev<br>year | Survey wave |       |       |       |       |        |
|   | 1           | 2     | 3     | 4     | 5     | Total  |
| -8  | 0           | 3     | 7     | 6     | 18    | 50     |
| -7  | 0           | 0     | 1     | 0     | 0     | 1      |
| 0   | 0           | 5,875 | 4,735 | 3,917 | 6,936 | 33,113 |
| 1   | 0           | 178   | 141   | 114   | 622   | 1,365  |
| .   | 7,609       | 0     | 0     | 0     | 0     | 7,609  |
| Total   | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

|   |             |       |        |
|---|-------------|-------|--------|
| Self<br>report<br>Heart<br>Attack<br>since prev<br>year | Survey wave |       |        |
|   | 6           | 7     | Total  |
| -8  | 7           | 9     | 50     |
| -7  | 0           | 0     | 1      |
| 0   | 6,243       | 5,407 | 33,113 |
| 1   | 160         | 150   | 1,365  |
| .   | 0           | 0     | 7,609  |
| Total   | 6,410       | 5,566 | 42,138 |

|                                  |             |       |       |       |       |        |
|----------------------------------|-------------|-------|-------|-------|-------|--------|
| Self<br>report<br>Stroke,<br>Raw | Survey wave |       |       |       |       |        |
|                                  | 1           | 2     | 3     | 4     | 5     | Total  |
| -8                               | 8           | 7     | 5     | 7     | 17    | 60     |
| -7                               | 0           | 0     | 1     | 0     | 0     | 1      |
| 0                                | 6,709       | 5,871 | 4,727 | 3,897 | 7,083 | 39,924 |
| 1                                | 892         | 178   | 151   | 133   | 476   | 2,153  |
| Total                            | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

| Self<br>report<br>Stroke,<br>Raw | Survey wave |       | Total  |
|----------------------------------|-------------|-------|--------|
|                                  | 6           | 7     |        |
| -8                               | 12          | 4     | 60     |
| -7                               | 0           | 0     | 1      |
| 0                                | 6,233       | 5,404 | 39,924 |
| 1                                | 165         | 158   | 2,153  |
| Total                            | 6,410       | 5,566 | 42,138 |

| Ever Self<br>report<br>Stroke | Survey wave |       |       |       |       | Total  |
|-------------------------------|-------------|-------|-------|-------|-------|--------|
|                               | 1           | 2     | 3     | 4     | 5     |        |
| -8                            | 8           | 13    | 12    | 14    | 24    | 122    |
| -7                            | 0           | 0     | 1     | 1     | 1     | 3      |
| 0                             | 6,709       | 5,262 | 4,186 | 3,423 | 6,633 | 36,555 |
| 1                             | 892         | 781   | 685   | 599   | 918   | 5,458  |
| Total                         | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

| Ever Self<br>report<br>Stroke | Survey wave |       | Total  |
|-------------------------------|-------------|-------|--------|
|                               | 6           | 7     |        |
| -8                            | 27          | 24    | 122    |
| -7                            | 0           | 0     | 3      |
| 0                             | 5,554       | 4,788 | 36,555 |
| 1                             | 829         | 754   | 5,458  |
| Total                         | 6,410       | 5,566 | 42,138 |

| Self<br>report<br>Stroke<br>since prev<br>year | Survey wave |       |       |       |       | Total  |
|--|-------------|-------|-------|-------|-------|--------|
|  | 1           | 2     | 3     | 4     | 5     |        |
| -8   | 0           | 7     | 5     | 7     | 17    | 52     |
| -7   | 0           | 0     | 1     | 0     | 0     | 1      |
| 0  | 0           | 5,871 | 4,727 | 3,897 | 7,083 | 33,215 |
| 1  | 0           | 178   | 151   | 133   | 476   | 1,261  |
| .  | 7,609       | 0     | 0     | 0     | 0     | 7,609  |
| Total  | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

| Self<br>report<br>Stroke<br>since prev<br>year | Survey wave |       | Total  |
|--|-------------|-------|--------|
|  | 6           | 7     |        |
| -8   | 12          | 4     | 52     |
| -7   | 0           | 0     | 1      |
| 0  | 6,233       | 5,404 | 33,215 |
| 1  | 165         | 158   | 1,261  |
| .  | 0           | 0     | 7,609  |
| Total  | 6,410       | 5,566 | 42,138 |

| Self<br>report<br>Cancer,<br>Raw | Survey wave |       |       |       |       | Total  |
|----------------------------------|-------------|-------|-------|-------|-------|--------|
|                                  | 1           | 2     | 3     | 4     | 5     |        |
| -8                               | 2           | 7     | 6     | 5     | 6     | 37     |
| -7                               | 1           | 0     | 1     | 0     | 1     | 3      |
| 0                                | 5,653       | 5,694 | 4,602 | 3,792 | 6,386 | 37,348 |
| 1                                | 1,953       | 355   | 275   | 240   | 1,183 | 4,750  |
| Total                            | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

| Self<br>report<br>Cancer,<br>Raw | Survey wave |       | Total  |
|----------------------------------|-------------|-------|--------|
|                                  | 6           | 7     |        |
| -8                               | 4           | 7     | 37     |
| -7                               | 0           | 0     | 3      |
| 0                                | 6,031       | 5,190 | 37,348 |
| 1                                | 375         | 369   | 4,750  |
| Total                            | 6,410       | 5,566 | 42,138 |

| Ever Self<br>report<br>Cancer | Survey wave |       |       |       |       | Total  |
|-------------------------------|-------------|-------|-------|-------|-------|--------|
|                               | 1           | 2     | 3     | 4     | 5     |        |
| -8                            | 2           | 8     | 11    | 13    | 16    | 85     |
| -7                            | 1           | 1     | 2     | 2     | 2     | 10     |
| 0                             | 5,653       | 4,357 | 3,430 | 2,746 | 5,407 | 29,831 |
| 1                             | 1,953       | 1,690 | 1,441 | 1,276 | 2,151 | 12,212 |
| Total                         | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

| Ever Self<br>report<br>Cancer | Survey wave |       | Total  |
|-------------------------------|-------------|-------|--------|
|                               | 6           | 7     |        |
| -8                            | 17          | 18    | 85     |
| -7                            | 1           | 1     | 10     |
| 0                             | 4,478       | 3,760 | 29,831 |
| 1                             | 1,914       | 1,787 | 12,212 |
| Total                         | 6,410       | 5,566 | 42,138 |

| Self<br>report<br>Cancer<br>since prev<br>year | Survey wave |       |       |       |       | Total  |
|--|-------------|-------|-------|-------|-------|--------|
|  | 1           | 2     | 3     | 4     | 5     |        |
| -8   | 0           | 7     | 6     | 5     | 6     | 35     |
| -7   | 0           | 0     | 1     | 0     | 1     | 2      |
| 0  | 0           | 5,694 | 4,602 | 3,792 | 6,386 | 31,695 |
| 1  | 0           | 355   | 275   | 240   | 1,183 | 2,797  |
| .  | 7,609       | 0     | 0     | 0     | 0     | 7,609  |
| Total  | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

|  |             |       |        |
|--|-------------|-------|--------|
| Self<br>report<br>Cancer<br>since prev<br>year | Survey wave |       |        |
|  | 6           | 7     | Total  |
| -8   | 4           | 7     | 35     |
| -7   | 0           | 0     | 2      |
| 0  | 6,031       | 5,190 | 31,695 |
| 1  | 375         | 369   | 2,797  |
| .  | 0           | 0     | 7,609  |
| Total  | 6,410       | 5,566 | 42,138 |

|  |             |       |       |       |       |        |
|--|-------------|-------|-------|-------|-------|--------|
| Self<br>report Hip<br>Fracture,<br>Raw | Survey wave |       |       |       |       |        |
|  | 1           | 2     | 3     | 4     | 5     | Total  |
| -8                                     | 4           | 2     | 2     | 1     | 3     | 15     |
| -7                                     | 0           | 0     | 1     | 0     | 0     | 1      |
| 0                                      | 7,226       | 5,976 | 4,795 | 3,979 | 7,350 | 41,145 |
| 1                                      | 379         | 78    | 86    | 57    | 223   | 977    |
| Total                                  | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

|  |             |       |        |
|--|-------------|-------|--------|
| Self<br>report Hip<br>Fracture,<br>Raw | Survey wave |       |        |
|  | 6           | 7     | Total  |
| -8                                     | 3           | 0     | 15     |
| -7                                     | 0           | 0     | 1      |
| 0                                      | 6,320       | 5,499 | 41,145 |
| 1                                      | 87          | 67    | 977    |
| Total                                  | 6,410       | 5,566 | 42,138 |

|  |             |       |       |       |       |        |
|--|-------------|-------|-------|-------|-------|--------|
| Ever Self<br>report Hip<br>Fracture<br>(since age<br>50) | Survey wave |       |       |       |       |        |
|  | 1           | 2     | 3     | 4     | 5     | Total  |
| -8   | 4           | 5     | 6     | 3     | 6     | 34     |
| -7   | 0           | 0     | 1     | 1     | 1     | 3      |
| 0  | 7,226       | 5,706 | 4,556 | 3,751 | 7,134 | 39,564 |
| 1  | 379         | 345   | 321   | 282   | 435   | 2,537  |
| Total  | 7,609       | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

|  |             |       |        |
|--|-------------|-------|--------|
| Ever Self<br>report Hip<br>Fracture<br>(since age<br>50) | Survey wave |       |        |
|  | 6           | 7     | Total  |
| -8   | 7           | 3     | 34     |
| -7   | 0           | 0     | 3      |
| 0  | 5,993       | 5,198 | 39,564 |
| 1  | 410         | 365   | 2,537  |
| Total  | 6,410       | 5,566 | 42,138 |

|             |  |       |             |       |       |       |        |
|-------------|--|-------|-------------|-------|-------|-------|--------|
| Self        |  |       |             |       |       |       |        |
| report Hip  |  |       |             |       |       |       |        |
| Fracture    |  |       |             |       |       |       |        |
| since prev  |  |       | Survey wave |       |       |       |        |
| year        |  | 1     | 2           | 3     | 4     | 5     | Total  |
| -----+----- |  |       |             |       |       |       |        |
| -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 |       |
| year        |  | 6           | 7     |
| -----+----- |  |             | Total |
| -8          |  | 3           | 0     |
| -7          |  | 0           | 0     |
| 0           |  | 6,320       | 5,499 |
| 1           |  | 87          | 67    |
| .           |  | 0           | 0     |
| -----+----- |  |             |       |
| Total       |  | 6,410       | 5,566 |

```

116
117 *****
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
121
122 la def sr_prev_rept 0 "No" 1 "Yes" 7 "Previously reported"

123
124 capture program drop prev_report

125 program define prev_report
1.      args dis num
2.
126      gen sr_`dis'_raw=.
3.          forvalues w=1/$w{
4.              replace sr_`dis'_raw=1 if disescn`num'==1 & wave==`
> w'
5.              replace sr_`dis'_raw=0 if disescn`num'==2 & wave==`
> 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'
8.              replace sr_`dis'_raw=-8 if disescn`num'==8 & wave=
> =`w'
9.          }
10.
127      la val sr_`dis'_raw sr_prev_rept
11.      tab sr_`dis'_raw wave if ivw_type==1, missing
12.

```

```

128      gen sr`dis'_ever = 1 if inlist(sr`dis'_raw,1,7) //if prev or curr re
> port yes
13.      replace sr`dis'_ever = 0 if sr`dis'_raw==0
14.      replace sr`dis'_ever = -7 if sr`dis'_raw==7
15.      replace sr`dis'_ever = -8 if sr`dis'_raw==8
16.      tab sr`dis'_ever sr`dis'_raw, missing
17.      tab sr`dis'_ever wave if ivw_type==1, missing
18.
129      gen sr`dis'_new=sr`dis'_raw if inrange(wave,2,$w)
19.      replace sr`dis'_new=0 if sr`dis'_raw==7
20.      tab sr`dis'_new if inrange(wave,2,$w) & ivw_type==1, missing
21.
130      end

131
132 //now run programs for specific disease variables
133 prev_report heart_dis 2
(47,778 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)

```

| sr_heart_dis_raw    | Survey wave |       |       |       | Total  |
|---------------------|-------------|-------|-------|-------|--------|
|                     | 1           | 2     | 3     | 4     |        |
| -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    | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 21          | 15    | 10    | 77     |
| -7                  | 0           | 0     | 0     | 1      |
| No                  | 5,963       | 4,932 | 4,240 | 32,845 |
| Yes                 | 724         | 160   | 130   | 2,844  |
| Previously reported | 868         | 1,303 | 1,186 | 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)

| sr_heart_d<br>is_ever | sr_heart_dis_raw |    |        |       | Total  |
|-----------------------|------------------|----|--------|-------|--------|
|                       | -8               | -7 | No     | Yes   |        |
| -8                    | 77               | 0  | 0      | 0     | 77     |
| -7                    | 0                | 1  | 0      | 0     | 1      |
| 0                     | 0                | 0  | 32,845 | 0     | 32,845 |
| 1                     | 0                | 0  | 0      | 2,844 | 6,371  |
| .                     | 0                | 0  | 0      | 0     | 5,640  |
| Total                 | 77               | 1  | 32,845 | 2,844 | 47,778 |

| sr_heart_d<br>is_ever | sr_heart_d<br>is_raw |        | Total |
|-----------------------|----------------------|--------|-------|
|                       | .                    |        |       |
| -8                    | 0                    | 77     |       |
| -7                    | 0                    | 1      |       |
| 0                     | 0                    | 32,845 |       |
| 1                     | 0                    | 9,215  |       |
| .                     | 5,640                | 5,640  |       |
| Total                 | 5,640                | 47,778 |       |

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

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

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



| sr_heart_di  <br>s_new | Freq.  | Percent | Cum.   |
|------------------------|--------|---------|--------|
| -8                     | 61     | 0.18    | 0.18   |
| -7                     | 1      | 0.00    | 0.18   |
| 0                      | 33,034 | 95.67   | 95.85  |
| 1                      | 1,433  | 4.15    | 100.00 |
| Total                  | 34,529 | 100.00  |        |

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)

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

| sr_htn_raw          | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 10          | 3     | 6     | 43     |
| No                  | 2,221       | 1,786 | 1,481 | 12,220 |
| Yes                 | 2,674       | 111   | 92    | 8,331  |
| Previously reported | 2,671       | 4,510 | 3,987 | 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<br>r | -8 | No     | sr_htn_raw<br>Yes | Previousl | .     | Total  |
|-----------------|----|--------|-------------------|-----------|-------|--------|
| -8              | 43 | 0      | 0                 | 0         | 0     | 43     |
| 0               | 0  | 12,220 | 0                 | 0         | 0     | 12,220 |
| 1               | 0  | 0      | 8,331             | 21,544    | 0     | 29,875 |
| .               | 0  | 0      | 0                 | 0         | 5,640 | 5,640  |
| Total           | 43 | 12,220 | 8,331             | 21,544    | 5,640 | 47,778 |

| sr_htn_eve<br>r | 1     | 2     | 3     | 4     | 5     | Total  |
|-----------------|-------|-------|-------|-------|-------|--------|
| -8              | 10    | 4     | 7     | 3     | 10    | 43     |
| 0               | 2,491 | 1,840 | 1,359 | 1,042 | 2,221 | 12,220 |
| 1               | 5,108 | 4,212 | 3,518 | 2,992 | 5,345 | 29,875 |
| Total           | 7,609 | 6,056 | 4,884 | 4,037 | 7,576 | 42,138 |

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

(13,249 missing values generated)  
 (21,544 real changes made)

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

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)

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

| sr_ra_raw           | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 10          | 2     | 5     | 44     |
| -7                  | 0           | 0     | 0     | 1      |
| No                  | 2,896       | 2,153 | 1,726 | 15,616 |
| Yes                 | 2,268       | 283   | 158   | 7,551  |
| Previously reported | 2,402       | 3,972 | 3,677 | 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_ever | sr_ra_raw |    |        |       | Previously reported | Total  |
|------------|-----------|----|--------|-------|---------------------|--------|
|            | -8        | -7 | No     | Yes   |                     |        |
| -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 |

| sr_ra_ever | Survey wave |       |       |       |       | Total  |
|------------|-------------|-------|-------|-------|-------|--------|
|            | 1           | 2     | 3     | 4     | 5     |        |
| -8         | 15          | 2     | 7     | 3     | 10    | 44     |
| -7         | 1           | 0     | 0     | 0     | 0     | 1      |
| 0          | 3,345       | 2,399 | 1,753 | 1,344 | 2,896 | 15,616 |
| 1          | 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 |       | Total  |
|------------|-------------|-------|--------|
|            | 6           | 7     |        |
| -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)

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

136 prev\_report osteopr5  
(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_osteopr          | s_raw | Survey wave |       |       |       | Total  |
|---------------------|-------|-------------|-------|-------|-------|--------|
|                     |       | 1           | 2     | 3     | 4     |        |
| -8                  |       | 27          | 14    | 12    | 16    | 131    |
| -7                  |       | 0           | 0     | 1     | 0     | 1      |
| No                  |       | 6,023       | 4,628 | 3,558 | 2,835 | 31,161 |
| Yes                 |       | 1,559       | 172   | 158   | 100   | 3,165  |
| Previously reported |       | 0           | 1,242 | 1,155 | 1,086 | 7,680  |
| Total               |       | 7,609       | 6,056 | 4,884 | 4,037 | 42,138 |

| sr_osteopr          | s_raw | Survey wave |       |       | Total  |
|---------------------|-------|-------------|-------|-------|--------|
|                     |       | 5           | 6     | 7     |        |
| -8                  |       | 37          | 14    | 11    | 131    |
| -7                  |       | 0           | 0     | 0     | 1      |
| No                  |       | 5,672       | 4,603 | 3,842 | 31,161 |
| Yes                 |       | 803         | 209   | 164   | 3,165  |
| Previously reported |       | 1,064       | 1,584 | 1,549 | 7,680  |
| Total               |       | 7,576       | 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 | s_ever | sr_osteopr |    |        |       | Total  |
|------------|--------|------------|----|--------|-------|--------|
|            |        | -8         | -7 | No     | Yes   |        |
| -8         |        | 131        | 0  | 0      | 0     | 131    |
| -7         |        | 0          | 1  | 0      | 0     | 1      |
| 0          |        | 0          | 0  | 31,161 | 0     | 31,161 |
| 1          |        | 0          | 0  | 0      | 3,165 | 10,845 |
| .          |        | 0          | 0  | 0      | 0     | 5,640  |
| Total      |        | 131        | 1  | 31,161 | 3,165 | 47,778 |

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

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

| sr_osteopr<br>s_ever | Survey wave |       | Total  |
|----------------------|-------------|-------|--------|
|                      | 6           | 7     |        |
| -8                   | 14          | 11    | 131    |
| -7                   | 0           | 0     | 1      |
| 0                    | 4,603       | 3,842 | 31,161 |
| 1                    | 1,793       | 1,713 | 10,845 |
| Total                | 6,410       | 5,566 | 42,138 |

(13,249 missing values generated)

(7,680 real changes made)

| sr_osteopr<br>_new | Freq.  | Percent | Cum.   |
|--------------------|--------|---------|--------|
|                    |        |         |        |
| -8                 | 104    | 0.30    | 0.30   |
| -7                 | 1      | 0.00    | 0.30   |
| 0                  | 32,818 | 95.04   | 95.35  |
| 1                  | 1,606  | 4.65    | 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     | Survey wave |       |       |       | Total  |
|---------------------|-------------|-------|-------|-------|--------|
|                     | 1           | 2     | 3     | 4     |        |
| -8                  | 2           | 2     | 3     | 3     | 22     |
| -7                  | 1           | 0     | 1     | 0     | 2      |
| No                  | 5,681       | 4,444 | 3,543 | 2,888 | 30,435 |
| Yes                 | 1,925       | 88    | 54    | 44    | 3,355  |
| Previously reported | 0           | 1,522 | 1,283 | 1,102 | 8,324  |
| Total               | 7,609       | 6,056 | 4,884 | 4,037 | 42,138 |

| sr_diabetes_raw     | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 9           | 0     | 3     | 22     |
| -7                  | 0           | 0     | 0     | 2      |
| No                  | 5,431       | 4,541 | 3,907 | 30,435 |
| Yes                 | 1,099       | 86    | 59    | 3,355  |
| Previously reported | 1,037       | 1,783 | 1,597 | 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<br>s_ever | sr_diabetes_raw |    |        |       |           |  | Total  |
|----------------------|-----------------|----|--------|-------|-----------|--|--------|
|                      | -8              | -7 | No     | Yes   | Previousl |  |        |
| -8                   | 22              | 0  | 0      | 0     | 0         |  | 22     |
| -7                   | 0               | 2  | 0      | 0     | 0         |  | 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<br>s_ever | sr_diabete<br>s_raw |  | Total  |
|----------------------|---------------------|--|--------|
|                      | .                   |  |        |
| -8                   | 0                   |  | 22     |
| -7                   | 0                   |  | 2      |
| 0                    | 0                   |  | 30,435 |
| 1                    | 0                   |  | 11,679 |
| .                    | 5,640               |  | 5,640  |
| Total                | 5,640               |  | 47,778 |

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

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

(13,249 missing values generated)

(8,324 real changes made)

| sr_diabetes  <br>_new | Freq.  | Percent | Cum.   |
|-----------------------|--------|---------|--------|
| -8                    | 20     | 0.06    | 0.06   |
| -7                    | 1      | 0.00    | 0.06   |
| 0                     | 33,078 | 95.80   | 95.86  |
| 1                     | 1,430  | 4.14    | 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)

| sr_lung_dis_raw     | Survey wave |       |       |       | Total  |
|---------------------|-------------|-------|-------|-------|--------|
|                     | 1           | 2     | 3     | 4     |        |
| -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     | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 6           | 3     | 6     | 30     |
| -7                  | 0           | 0     | 0     | 1      |
| No                  | 6,181       | 5,126 | 4,375 | 34,367 |
| Yes                 | 679         | 111   | 102   | 2,362  |
| Previously reported | 710         | 1,170 | 1,083 | 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 |    | sr_lung_dis_raw |        |       |          |   |        |
|------------|----|-----------------|--------|-------|----------|---|--------|
| s_ever     | -8 | -7              | No     | Yes   | Previous | 1 | Total  |
| -8         | 30 | 0               | 0      | 0     | 0        | 0 | 30     |
| -7         | 0  | 1               | 0      | 0     | 0        | 0 | 1      |
| 0          | 0  | 0               | 34,367 | 0     | 0        | 0 | 34,367 |
| 1          | 0  | 0               | 0      | 2,362 | 5,378    | 0 | 7,740  |
| .          | 0  | 0               | 0      | 0     | 0        | 0 | 5,640  |
| Total      | 30 | 1               | 34,367 | 2,362 | 5,378    |   | 47,778 |

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

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

| sr_lung_di | Survey wave |       |        |
|------------|-------------|-------|--------|
| s_ever     | 6           | 7     | Total  |
| -8         | 3           | 6     | 30     |
| -7         | 0           | 0     | 1      |
| 0          | 5,126       | 4,375 | 34,367 |
| 1          | 1,281       | 1,185 | 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          | 25     | 0.07    | 0.07   |
| -7          | 1      | 0.00    | 0.08   |
| 0           | 33,295 | 96.43   | 96.50  |
| 1           | 1,208  | 3.50    | 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)

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

| sr_dementia_raw     | Survey wave |       |       | Total  |
|---------------------|-------------|-------|-------|--------|
|                     | 5           | 6     | 7     |        |
| -8                  | 10          | 5     | 2     | 33     |
| -7                  | 1           | 0     | 0     | 2      |
| No                  | 6,994       | 5,865 | 5,058 | 38,787 |
| Yes                 | 288         | 147   | 122   | 1,371  |
| Previously reported | 283         | 393   | 384   | 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<br>a_ever | -8 | -7 | sr_dementia_raw<br>No | Yes   | Previous | 1 | Total  |
|----------------------|----|----|-----------------------|-------|----------|---|--------|
| -8                   | 33 | 0  | 0                     | 0     | 0        | 0 | 33     |
| -7                   | 0  | 2  | 0                     | 0     | 0        | 0 | 2      |
| 0                    | 0  | 0  | 38,787                | 0     | 0        | 0 | 38,787 |
| 1                    | 0  | 0  | 0                     | 1,371 | 1,945    | 0 | 3,316  |
| .                    | 0  | 0  | 0                     | 0     | 0        | 0 | 5,640  |
| Total                | 33 | 2  | 38,787                | 1,371 | 1,945    | 0 | 47,778 |

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

| sr_dementi<br>a_ever | 1     | 2     | 3     | 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<br>a_ever | 6     | 7     | Total  |
|----------------------|-------|-------|--------|
| -8                   | 5     | 2     | 33     |
| -7                   | 0     | 0     | 2      |
| 0                    | 5,865 | 5,058 | 38,787 |
| 1                    | 540   | 506   | 3,316  |
| Total                | 6,410 | 5,566 | 42,138 |

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

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

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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"
155
156
157 notes sr_heart_dis_raw: disescn2
158 notes sr_heart_dis_raw: Had any heart disease including angina or CHF (self-re
  > port)
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).
163
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)

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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).  
177  
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).  
184  
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).  
191  
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).  
198  
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 ///
> 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{
2.
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{
2. //set up new variables for individual wave variables
220 foreach q in 1 2 3 4 {
3. gen temp_hc`w'deprsan`q'=. if inlist(depresan`q',-9,-8,-7,-1) & wav
> e==`w'
4. replace temp_hc`w'deprsan`q'=depresan`q'-1 if inlist(depresan`q',1,
> 2,3,4) & wave==`w'
5. replace temp_hc`w'deprsan`q'=0 if inlist(depresan`q',-8,-7) & wave=
> =`w'
6. }
7. //now create clean depression, anxiety variables
221 replace sr_depr_pqq1=temp_hc`w'deprsan1 if wave==`w' //little interest
> or pleasure in doing things
8. replace sr_depr_pqq2=temp_hc`w'deprsan2 if wave==`w' //felt down/de
> pressed/hopeless
9. replace sr_anx_gad1=temp_hc`w'deprsan3 if wave==`w' //felt nervous
> or anxious
10. replace sr_anx_gad2=temp_hc`w'deprsan4 if wave==`w' //unable to sto
> p worrying
11.
222
223 foreach q in 1 2 3 4 {
12. drop temp_hc`w'deprsan`q'
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)

```

```

225
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?"

232
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
    3. }

```

| How often little<br>interest in doing<br>things? | Survey wave |       |       |       | Total  |
|--|-------------|-------|-------|-------|--------|
|  | 1           | 2     | 3     | 4     |        |
| 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 little<br>interest in doing<br>things? | Survey wave |       |       | Total  |
|--|-------------|-------|-------|--------|
|  | 5           | 6     | 7     |        |
| Not at all                                       | 4,819       | 4,058 | 3,480 | 26,678 |
| Several days                                     | 1,637       | 1,432 | 1,288 | 9,238  |
| More than half the da                            | 565         | 481   | 411   | 3,092  |
| Nearly every day                                 | 555         | 439   | 387   | 3,130  |
| Total  | 7,576       | 6,410 | 5,566 | 42,138 |

| How often felt down,<br>depressed, hopeless? | Survey wave |       |       |       |        |
|--|-------------|-------|-------|-------|--------|
|  | 1           | 2     | 3     | 4     | Total  |
| Not at all                                   | 5,336       | 4,301 | 3,479 | 2,868 | 30,212 |
| Several days                                 | 1,589       | 1,258 | 999   | 873   | 8,588  |
| More than half the da                        | 353         | 282   | 199   | 160   | 1,799  |
| Nearly every day                             | 331         | 215   | 207   | 136   | 1,539  |
| Total  | 7,609       | 6,056 | 4,884 | 4,037 | 42,138 |

| How often felt down,<br>depressed, hopeless? | Survey wave |       |       | Total  |
|--|-------------|-------|-------|--------|
|  | 5           | 6     | 7     |        |
| Not at all                                   | 5,489       | 4,644 | 4,095 | 30,212 |
| Several days                                 | 1,529       | 1,276 | 1,064 | 8,588  |
| More than half the da                        | 298         | 279   | 228   | 1,799  |
| Nearly every day                             | 260         | 211   | 179   | 1,539  |
| Total  | 7,576       | 6,410 | 5,566 | 42,138 |

| How often felt<br>nervous or anxious? | Survey wave |       |       |       |        |
|---------------------------------------|-------------|-------|-------|-------|--------|
|                                       | 1           | 2     | 3     | 4     | Total  |
| Not at all                            | 4,840       | 3,962 | 3,139 | 2,631 | 27,544 |
| Several days                          | 2,011       | 1,574 | 1,332 | 1,085 | 10,988 |
| More than half the da                 | 382         | 265   | 199   | 156   | 1,859  |
| Nearly every day                      | 376         | 255   | 214   | 165   | 1,747  |
| Total                                 | 7,609       | 6,056 | 4,884 | 4,037 | 42,138 |

| How often felt<br>nervous or anxious? | Survey wave |       |       | Total  |
|---------------------------------------|-------------|-------|-------|--------|
|                                       | 5           | 6     | 7     |        |
| Not at all                            | 5,008       | 4,256 | 3,708 | 27,544 |
| Several days                          | 1,946       | 1,630 | 1,410 | 10,988 |
| More than half the da                 | 328         | 286   | 243   | 1,859  |
| Nearly every day                      | 294         | 238   | 205   | 1,747  |
| Total                                 | 7,576       | 6,410 | 5,566 | 42,138 |

| How often unable to<br>stop worrying? | Survey wave |       |       |       | Total  |
|---------------------------------------|-------------|-------|-------|-------|--------|
|                                       | 1           | 2     | 3     | 4     |        |
| Not at all                            | 5,456       | 4,420 | 3,635 | 2,950 | 30,805 |
| Several days                          | 1,283       | 1,015 | 773   | 716   | 7,169  |
| More than half the da                 | 357         | 256   | 195   | 144   | 1,763  |
| Nearly every day                      | 513         | 365   | 281   | 227   | 2,401  |
| Total                                 | 7,609       | 6,056 | 4,884 | 4,037 | 42,138 |

| How often unable to<br>stop worrying? | Survey wave |       |       | Total  |
|---------------------------------------|-------------|-------|-------|--------|
|                                       | 5           | 6     | 7     |        |
| Not at all                            | 5,517       | 4,699 | 4,128 | 30,805 |
| Several days                          | 1,336       | 1,134 | 912   | 7,169  |
| More than half the da                 | 325         | 247   | 239   | 1,763  |
| Nearly every day                      | 398         | 330   | 287   | 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<br>combined<br>score 0-6<br>scale | Depressed per PHQ-2,<br>score=3+ |       | Total  |
|---|----------------------------------|-------|--------|
|   | 0                                | 1     |        |
| 0                                       | 23,002                           | 0     | 23,002 |
| 1                                       | 7,476                            | 0     | 7,476  |
| 2                                       | 5,640                            | 0     | 5,640  |
| 3                                       | 0                                | 3,234 | 3,234  |
| 4                                       | 0                                | 1,491 | 1,491  |
| 5                                       | 0                                | 577   | 577    |
| 6                                       | 0                                | 718   | 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  <br>combined  <br>score 0-6  <br>scale | Anxiety per GAD-2,<br>score=3+ |       | Total  |
|---|--------------------------------|-------|--------|
|   | 0                              | 1     |        |
| 0   | 24,018                         | 0     | 24,018 |
| 1   | 8,356                          | 0     | 8,356  |
| 2   | 4,848                          | 0     | 4,848  |
| 3   | 0                              | 2,088 | 2,088  |
| 4   | 0                              | 1,451 | 1,451  |
| 5   | 0                              | 537   | 537    |
| 6   | 0                              | 840   | 840    |
| Total   | 37,222                         | 4,916 | 42,138 |

250 tab sr\_gad2\_anxiety wave, missing

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

| Anxiety  <br>per GAD-2,  <br>score=3+ | Survey wave |       | Total  |
|---------------------------------------|-------------|-------|--------|
|                                       | 6           | 7     |        |
| 0                                     | 5,721       | 4,971 | 37,222 |
| 1                                     | 689         | 595   | 4,916  |
| .                                     | 866         | 746   | 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.

260

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
265
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
270
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  |
| 0         | 39,211    | 0         | 0         | 39,211 |
| 1         | 2,927     | 2,671     | 0         | 5,598  |
| .         | 0         | 0         | 2,969     | 2,969  |
| Total     | 42,138    | 2,671     | 2,969     | 47,778 |

```

278
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{
5. replace pr_ad8_`i'=1 if inlist(chgthink`i',1,3) & wave==`w' & dem_3
> _cat==. & proxy_ivw==1 //yes or dementia reported
6. replace pr_ad8_`i'=0 if inlist(chgthink`i',2,-8) & wave==`w' & dem_
> 3_cat==. & proxy_ivw==1 //no or don't know
7. }
8. tab pr_ad8_`i' wave, missing
9. tab pr_ad8_`i' wave if proxy_ivw==1, missing
10. }
(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)

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

| pr_ad8_1 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -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 |

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

| pr_ad8_1 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 89          | 47  | 765   |
| 1        | 50          | 28  | 413   |
| .        | 5           | 6   | 29    |
| Total    | 894         | 759 | 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 wave |       |       |       |       | Total  |
|----------|-------------|-------|-------|-------|-------|--------|
|          | 1           | 2     | 3     | 4     | 5     |        |
| -1       | 7,931       | 6,851 | 5,644 | 4,625 | 8,157 | 46,571 |
| 0        | 190         | 135   | 89    | 61    | 99    | 690    |
| 1        | 124         | 86    | 62    | 44    | 73    | 487    |
| .        | 0           | 3     | 4     | 7     | 5     | 30     |
| Total    | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

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

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

| pr_ad8_2 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 72          | 44  | 690   |
| 1        | 67          | 31  | 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)

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

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

| pr_ad8_3 | Survey wave |     |     |     |     | Total |
|----------|-------------|-----|-----|-----|-----|-------|
|          | 1           | 2   | 3   | 4   | 5   |       |
| -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 |

| pr_ad8_3 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -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)

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

| pr_ad8_4 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -1       | 7,132       | 6,231 | 46,571 |
| 0        | 89          | 51    | 750    |
| 1        | 50          | 24    | 427    |
| .        | 5           | 6     | 30     |
| Total    | 7,276       | 6,312 | 47,778 |

| pr_ad8_4 | Survey wave |     |     |     |     | Total |
|----------|-------------|-----|-----|-----|-----|-------|
|          | 1           | 2   | 3   | 4   | 5   |       |
| -1       | 269         | 740 | 742 | 610 | 602 | 4,391 |
| 0        | 217         | 140 | 92  | 61  | 100 | 750   |
| 1        | 97          | 81  | 59  | 44  | 72  | 427   |
| .        | 0           | 3   | 4   | 7   | 5   | 30    |
| Total    | 583         | 964 | 897 | 722 | 779 | 5,598 |

| pr_ad8_4 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 89          | 51  | 750   |
| 1        | 50          | 24  | 427   |
| .        | 5           | 6   | 30    |
| Total    | 894         | 759 | 5,598 |

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

(104 real changes made)

(210 real changes made)

(83 real changes made)

(138 real changes made)

(43 real changes made)

(108 real changes made)

(37 real changes made)

(68 real changes made)

(64 real changes made)

(108 real changes made)

(51 real changes made)

(88 real changes made)

(28 real changes made)

(47 real changes made)

| pr_ad8_5 | Survey wave |       |       |       |       | Total  |
|----------|-------------|-------|-------|-------|-------|--------|
|          | 1           | 2     | 3     | 4     | 5     |        |
| -1       | 7,931       | 6,851 | 5,644 | 4,625 | 8,157 | 46,571 |
| 0        | 210         | 138   | 108   | 68    | 108   | 767    |
| 1        | 104         | 83    | 43    | 37    | 64    | 410    |
| .        | 0           | 3     | 4     | 7     | 5     | 30     |
| Total    | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| pr_ad8_5 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -1       | 7,132       | 6,231 | 46,571 |
| 0        | 88          | 47    | 767    |
| 1        | 51          | 28    | 410    |
| .        | 5           | 6     | 30     |
| Total    | 7,276       | 6,312 | 47,778 |

| pr_ad8_5 | Survey wave |     |     |     |     | Total |
|----------|-------------|-----|-----|-----|-----|-------|
|          | 1           | 2   | 3   | 4   | 5   |       |
| -1       | 269         | 740 | 742 | 610 | 602 | 4,391 |
| 0        | 210         | 138 | 108 | 68  | 108 | 767   |
| 1        | 104         | 83  | 43  | 37  | 64  | 410   |
| .        | 0           | 3   | 4   | 7   | 5   | 30    |
| Total    | 583         | 964 | 897 | 722 | 779 | 5,598 |



| pr_ad8_5 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 88          | 47  | 767   |
| 1        | 51          | 28  | 410   |
| .        | 5           | 6   | 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)

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

| pr_ad8_6 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -1       | 7,132       | 6,231 | 46,571 |
| 0        | 98          | 50    | 805    |
| 1        | 41          | 25    | 372    |
| .        | 5           | 6     | 30     |
| Total    | 7,276       | 6,312 | 47,778 |

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

| pr_ad8_6 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 98          | 50  | 805   |
| 1        | 41          | 25  | 372   |
| .        | 5           | 6   | 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)

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

| pr_ad8_7 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -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 | Survey wave |     |     |     |     | Total |
|----------|-------------|-----|-----|-----|-----|-------|
|          | 1           | 2   | 3   | 4   | 5   |       |
| -1       | 269         | 740 | 742 | 610 | 602 | 4,391 |
| 0        | 248         | 171 | 127 | 80  | 143 | 951   |
| 1        | 66          | 49  | 24  | 24  | 29  | 224   |
| .        | 0           | 4   | 4   | 8   | 5   | 32    |
| Total    | 583         | 964 | 897 | 722 | 779 | 5,598 |

| pr_ad8_7 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 120         | 62  | 951   |
| 1        | 19          | 13  | 224   |
| .        | 5           | 6   | 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)

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

| pr_ad8_8 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -1       | 7,132       | 6,231 | 46,571 |
| 0        | 74          | 40    | 699    |
| 1        | 65          | 35    | 479    |
| .        | 5           | 6     | 29     |
| Total    | 7,276       | 6,312 | 47,778 |

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

| pr_ad8_8 | Survey wave |     | Total |
|----------|-------------|-----|-------|
|          | 6           | 7   |       |
| -1       | 750         | 678 | 4,391 |
| 0        | 74          | 40  | 699   |
| 1        | 65          | 35  | 479   |
| .        | 5           | 6   | 29    |
| Total    | 894         | 759 | 5,598 |

287

288 tab pr\_ad8\_3 chgthink3 if wave==1, missing

| pr_ad8_3 | -9 Missin | R1 CP3C SP DIFF REMEMBER APPT |           |          |          | Total |
|----------|-----------|-------------------------------|-----------|----------|----------|-------|
|          |           | -8 DK                         | -1 Inappl | 1 YES, A | 2 NO, NO |       |
| -1       | 168       | 2                             | 7,494     | 126      | 25       | 7,931 |
| 0        | 0         | 4                             | 0         | 0        | 177      | 181   |
| 1        | 0         | 0                             | 0         | 129      | 0        | 133   |
| Total    | 168       | 6                             | 7,494     | 255      | 202      | 8,245 |

| pr_ad8_3 | R1 CP3C SP<br>DIFF<br>REMEMBER<br>APPT<br>3 DEMENT |  | Total |
|----------|--|--|-------|
|          |  |  |       |
| -1       | 116  |  | 7,931 |
| 0        | 0  |  | 181   |
| 1        | 4  |  | 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<br>REMEMBER DATE | R2 D DEMENTIA<br>REPORTED IN PRIOR AD8 |           | Total |
|----------------------------------|--|-----------|-------|
|                                  | -1 Inappl                              | 1 DEMENTI |       |
| -8 DK                            | 1                                      | 0         | 1     |
| -1 Inapplicable                  | 463                                    | 120       | 583   |
| 1 YES, A CHANGE                  | 135                                    | 0         | 135   |
| 2 NO, NO CHANGE                  | 179                                    | 0         | 179   |
| 3 DEMENTIA/ALZHEIMER             | 66                                     | 0         | 66    |
| Total                            | 844                                    | 120       | 964   |

290

291 tab pr\_ad8\_1 wave, missing

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

| pr_ad8_1 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -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 |

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 DEMENTIA<br>REPORTED IN PRIOR AD8 |           | Total |
|----------|--|-----------|-------|
|          | -1 Inappl                              | 1 DEMENTI |       |
| -1       | 623                                    | 117       | 740   |
| 0        | 148                                    | 0         | 148   |
| 1        | 73                                     | 0         | 73    |
| .        | 0                                      | 3         | 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 | Self report Dementia |     |     |     | Total |
|----------|----------------------|-----|-----|-----|-------|
|          | -8                   | 0   | 1   | .   |       |
| -1       | 0                    | 0   | 237 | 503 | 740   |
| 0        | 0                    | 148 | 0   | 0   | 148   |
| 1        | 1                    | 72  | 0   | 0   | 73    |
| .        | 0                    | 3   | 0   | 0   | 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<br>re | Interview via proxy |       |       | Total  |
|------------------|---------------------|-------|-------|--------|
|                  | 0                   | 1     | .     |        |
| 0                | 0                   | 364   | 0     | 364    |
| 1                | 0                   | 166   | 0     | 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<br>re | Survey wave |       |       |       |       | Total  |
|------------------|-------------|-------|-------|-------|-------|--------|
|                  | 1           | 2     | 3     | 4     | 5     |        |
| 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<br>re | Survey wave |       | Total  |
|------------------|-------------|-------|--------|
|                  | 6           | 7     |        |
| 0                | 42          | 22    | 364    |
| 1                | 12          | 10    | 166    |
| 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 |

```

298
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<br>oxy | Survey wave |     |     |     |     | Total |
|-------------------|-------------|-----|-----|-----|-----|-------|
|                   | 1           | 2   | 3   | 4   | 5   |       |
| -1                | 269         | 237 | 219 | 206 | 306 | 1,720 |
| 0                 | 154         | 107 | 72  | 42  | 69  | 530   |
| 1                 | 159         | 116 | 83  | 65  | 103 | 662   |
| .                 | 1           | 1   | 0   | 5   | 5   | 15    |
| Total             | 583         | 461 | 374 | 318 | 483 | 2,927 |

| dem_via_pr<br>oxy | Survey wave |     | Total |
|-------------------|-------------|-----|-------|
|                   | 6           | 7   |       |
| -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
    > s dem
    (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

```

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

| dem_3_cat | Survey wave |       | Total  |
|-----------|-------------|-------|--------|
|           | 6           | 7     |        |
| -1        | 866         | 746   | 5,640  |
| 1         | 628         | 554   | 3,978  |
| 3         | 29          | 14    | 262    |
| .         | 5,753       | 4,998 | 37,898 |
| Total     | 7,276       | 6,312 | 47,778 |

```

312
313
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{
318     2. notes pr_ad8_`i': chgthink`i'
319     3. }
320
321 notes pr_ad8_1: Change caused by memeory problems remembering month or year. (
322 > from proxy)
323
324 notes pr_ad8_2: Change caused by memeory problems repeating questions, stories
325 > , statements. (from proxy)
326
327 notes pr_ad8_3: Change caused by memeory problems amount of difficulty remembe
328 > ring appointments. (from proxy)
329
330 notes pr_ad8_4: Change caused by memeory problems amount of interest in hobbie
331 > s/activities. (from proxy)
332
333 notes pr_ad8_5: Change caused by memeory problems handling money matters. (fro
334 > m proxy)
335
336 notes pr_ad8_6: Change caused by memeory problems trouble to use tools/gadgets
337 > /tv. (from proxy)
338
339 notes pr_ad8_7: Change caused by memeory problems, problems with judgement. (f
340 > rom proxy)
341
342 notes pr_ad8_8: Change caused by memeory problems, failly problems with thinkin
343 > g or memeory. (from proxy)
344
345
346
347 notes pr_ad8_score: chgthink*
348
349 notes pr_ad8_score: adding up pr_ad8_* (from proxy)
350
351
352 notes dem_via_proxy: chgthink* pr_ad8_* pr_ad8_score
353
354 notes dem_via_proxy: Dementia indicator from proxy.
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```

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{
    2.     gen date_item`i'=.
    3.     forvalues w=1/$w{
    4.         replace date_item`i'=1 if todaydat`i'==1 & wave==`w' //yes
    5.         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 | Survey wave |       |       |       |       | Total  |
|----------|-------------|-------|-------|-------|-------|--------|
|          | 1           | 2     | 3     | 4     | 5     |        |
| 0        | 317         | 202   | 179   | 200   | 268   | 1,534  |
| 1        | 213         | 158   | 138   | 185   | 203   | 1,205  |
| 2        | 293         | 294   | 196   | 825   | 305   | 2,389  |
| 3        | 1,072       | 1,121 | 1,018 | 2,590 | 1,294 | 9,568  |
| 4        | 5,424       | 4,029 | 3,155 | 54    | 5,263 | 25,874 |
| .        | 926         | 1,271 | 1,113 | 883   | 1,001 | 7,208  |
| Total    | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| date_sum | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| 0        | 186         | 182   | 1,534  |
| 1        | 174         | 134   | 1,205  |
| 2        | 246         | 230   | 2,389  |
| 3        | 1,329       | 1,144 | 9,568  |
| 4        | 4,248       | 3,701 | 25,874 |
| .        | 1,093       | 921   | 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=`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{
    2.         replace date_sum=-2 if date_sum==. & speaktosp==2 & wave=='w'
    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 | Survey wave |       |       |       |       | Total  |
|----------|-------------|-------|-------|-------|-------|--------|
|          | 1           | 2     | 3     | 4     | 5     |        |
| -3       | 6           | 2     | 1     | 1     | 6     | 28     |
| -2       | 284         | 250   | 197   | 182   | 237   | 1,540  |
| 0        | 317         | 202   | 179   | 200   | 268   | 1,534  |
| 1        | 213         | 158   | 138   | 185   | 203   | 1,205  |
| 2        | 293         | 294   | 196   | 825   | 305   | 2,389  |
| 3        | 1,072       | 1,121 | 1,018 | 2,590 | 1,294 | 9,568  |
| 4        | 5,424       | 4,029 | 3,155 | 54    | 5,263 | 25,874 |
| .        | 636         | 1,019 | 915   | 700   | 758   | 5,640  |
| Total    | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| date_sum | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| -3       | 7           | 5     | 28     |
| -2       | 220         | 170   | 1,540  |
| 0        | 186         | 182   | 1,534  |
| 1        | 174         | 134   | 1,205  |
| 2        | 246         | 230   | 2,389  |
| 3        | 1,329       | 1,144 | 9,568  |
| 4        | 4,248       | 3,701 | 25,874 |
| .        | 866         | 746   | 5,640  |
| Total    | 7,276       | 6,312 | 47,778 |

```

360
361 //new version date sum measure, without the extra categories
362 gen date_sumr=date_sum
    (5,640 missing values generated)

363 replace date_sumr=. if date_sum== -2
    (1,540 real changes made, 1,540 to missing)

364 replace date_sumr=0 if date_sum== -3
    (28 real changes made)

365
366 //president/vp items and count
367 capture program drop president

368 program define president
    1.      args newv oldv
    2.      gen `newv'=.
    3.      forvalues w=1/$w{
    4.          replace `newv'=1 if `oldv'==1 & wave==`w' //yes
    5.          replace `newv'=0 if inlist(`oldv',2,-7) & wave==`w' //no, r
    > efused
    6.      }
    7.      tab `newv' wave, missing
    8. end

369
370 president preslast presidnal
    (47,778 missing values generated)
    (6,672 real changes made)
    (532 real changes made)
    (5,395 real changes made)
    (329 real changes made)
    (4,331 real changes made)
    (281 real changes made)
    (3,594 real changes made)
    (188 real changes made)
    (6,802 real changes made)
    (415 real changes made)
    (5,786 real changes made)
    (321 real changes made)
    (4,878 real changes made)
    (444 real changes made)

```

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

| preslast | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| 0        | 321         | 444   | 2,510  |
| 1        | 5,786       | 4,878 | 37,458 |
| .        | 1,169       | 990   | 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)  
 (1,803 real changes made)  
 (4,324 real changes made)  
 (998 real changes made)

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

| presfirst | Survey wave |       | Total  |
|-----------|-------------|-------|--------|
|           | 6           | 7     |        |
| 0         | 1,803       | 998   | 13,141 |
| 1         | 4,304       | 4,324 | 26,827 |
| .         | 1,169       | 990   | 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)

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

| vplast | Survey wave |       | Total  |
|--------|-------------|-------|--------|
|        | 6           | 7     |        |
| 0      | 2,133       | 2,269 | 16,676 |
| 1      | 3,974       | 3,053 | 23,292 |
| .      | 1,169       | 990   | 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)

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

| vpfirst | Survey wave |       | Total  |
|---------|-------------|-------|--------|
|         | 6           | 7     |        |
| 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 |

374  
 375 //count president questions correct  
 376 gen presvp=preslast+presfirst+vplast+vpfirst  
 (7,810 missing values generated)

377 tab presvp wave, missing

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

| presvp | Survey wave |       | Total  |
|--------|-------------|-------|--------|
|        | 6           | 7     |        |
| 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 |
| .      | 1,169       | 990   | 7,810  |
| Total  | 7,276       | 6,312 | 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{
  2.      replace presvp=-2 if presvp==. & speaktosp==2 & wave==`w'
  3.      replace presvp=-3 if presvp==. & (preslast==. | presfirst==. | vpla
> 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

```

| presvp | Survey wave |       |       |       |       | Total  |
|--------|-------------|-------|-------|-------|-------|--------|
|        | 1           | 2     | 3     | 4     | 5     |        |
| -3     | 121         | 82    | 75    | 73    | 122   | 630    |
| -2     | 284         | 250   | 197   | 182   | 237   | 1,540  |
| 0      | 459         | 295   | 245   | 170   | 361   | 2,214  |
| 1      | 1,940       | 1,184 | 805   | 638   | 1,100 | 6,991  |
| 2      | 1,807       | 1,241 | 1,028 | 797   | 1,441 | 9,047  |
| 3      | 957         | 807   | 611   | 488   | 1,017 | 6,214  |
| 4      | 2,041       | 2,197 | 1,923 | 1,689 | 3,298 | 15,502 |
| .      | 636         | 1,019 | 915   | 700   | 758   | 5,640  |
| Total  | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| presvp | Survey wave |       | Total  |
|--------|-------------|-------|--------|
|        | 6           | 7     |        |
| -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)

389
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 | Cum.   |
|-----------|--------|---------|--------|
| 0         | 1,162  | 2.43    | 2.43   |
| 1         | 670    | 1.40    | 3.83   |
| 2         | 878    | 1.84    | 5.67   |
| 3         | 1,402  | 2.93    | 8.61   |
| 4         | 3,068  | 6.42    | 15.03  |
| 5         | 6,368  | 13.33   | 28.36  |
| 6         | 7,726  | 16.17   | 44.53  |
| 7         | 7,774  | 16.27   | 60.80  |
| 8         | 11,550 | 24.17   | 84.97  |
| .         | 7,180  | 15.03   | 100.00 |
| -----+    |        |         |        |
| Total     | 47,778 | 100.00  |        |

```

393
394 //executive function domain, clock drawing score
395 gen clock_scorer=.
    (47,778 missing values generated)

396 forvalues w=1/$w{
    2.      replace clock_scorer=dclkdraw if wave==`w'
    3.      replace clock_scorer=. if inlist(dclkdraw,-2,-9) & wave==`w' //miss
> ing
    4.      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
    6.      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_scorer | Survey wave |       |       |       |       | Total  |
|--------------|-------------|-------|-------|-------|-------|--------|
|              | 1           | 2     | 3     | 4     | 5     |        |
| -1           | 636         | 1,019 | 915   | 700   | 579   | 5,126  |
| 0            | 416         | 250   | 186   | 153   | 204   | 1,501  |
| 1            | 332         | 183   | 128   | 125   | 265   | 1,406  |
| 2            | 950         | 869   | 606   | 447   | 954   | 5,152  |
| 3            | 1,991       | 1,303 | 1,042 | 847   | 1,563 | 8,999  |
| 4            | 2,673       | 2,246 | 1,891 | 1,160 | 2,536 | 14,677 |
| 5            | 963         | 955   | 834   | 1,123 | 1,817 | 8,863  |
| .            | 284         | 250   | 197   | 182   | 416   | 2,054  |
| Total        | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| clock_scorer | Survey wave |       | Total  |
|--------------|-------------|-------|--------|
|              | 6           | 7     |        |
| -1           | 689         | 588   | 5,126  |
| 0            | 170         | 122   | 1,501  |
| 1            | 197         | 176   | 1,406  |
| 2            | 734         | 592   | 5,152  |
| 3            | 1,183       | 1,070 | 8,999  |
| 4            | 2,249       | 1,922 | 14,677 |
| 5            | 1,657       | 1,514 | 8,863  |
| .            | 397         | 328   | 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
1.     args newv oldv
2.     gen `newv'=.
3.     forvalues w=1/$w{
4.         replace `newv'=`oldv' if wave==`w'
5.         replace `newv'=. if inlist(`oldv',-2,-1) & wave==`w' //n/a
> or not asked
6.         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 dwrdimrc

(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)

| irecall | Survey wave |       |       |       |       | Total  |
|---------|-------------|-------|-------|-------|-------|--------|
|         | 1           | 2     | 3     | 4     | 5     |        |
| -9      | 0           | 0     | 0     | 0     | 9     | 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       | 36          | 51    | 27    | 40    | 66    | 347    |
| 10      | 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 |

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

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

| drecall | Survey wave |       | Total  |
|---------|-------------|-------|--------|
|         | 6           | 7     |        |
| -9      | 0           | 0     | 9      |
| 0       | 991         | 814   | 6,937  |
| 1       | 418         | 384   | 2,904  |
| 2       | 596         | 566   | 4,258  |
| 3       | 950         | 833   | 6,475  |
| 4       | 1,171       | 1,046 | 7,739  |
| 5       | 1,058       | 890   | 6,432  |
| 6       | 615         | 521   | 3,632  |
| 7       | 260         | 238   | 1,542  |
| 8       | 98          | 73    | 492    |
| 9       | 27          | 31    | 160    |
| 10      | 6           | 0     | 18     |
| .       | 1,086       | 916   | 7,180  |
| Total   | 7,276       | 6,312 | 47,778 |

```

406
407 gen wordrecall0_20=irecall+drecall
    (7,180 missing values generated)

408
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)

412
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)

415
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 | Survey wave |       |       |       |       | Total  |
|----------|-------------|-------|-------|-------|-------|--------|
|          | 1           | 2     | 3     | 4     | 5     |        |
| 0        | 5,577       | 4,553 | 3,738 | 2,919 | 5,906 | 32,156 |
| 1        | 1,071       | 784   | 541   | 551   | 866   | 5,065  |
| 2        | 417         | 366   | 326   | 300   | 425   | 2,508  |
| 3        | 260         | 103   | 82    | 85    | 133   | 860    |
| .        | 920         | 1,269 | 1,112 | 882   | 1,004 | 7,189  |
| Total    | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| domain65 | Survey wave |       | Total  |
|----------|-------------|-------|--------|
|          | 6           | 7     |        |
| 0        | 5,072       | 4,391 | 32,156 |
| 1        | 654         | 598   | 5,065  |
| 2        | 358         | 316   | 2,508  |
| 3        | 106         | 91    | 860    |
| .        | 1,086       | 916   | 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<br>likelihood, 3<br>categories | 1     | 2     | 3     | 4     | Total  |
|---|-------|-------|-------|-------|--------|
| -1                                      | 636   | 1,019 | 915   | 700   | 5,640  |
| Probable dementia                       | 1,038 | 840   | 718   | 662   | 5,851  |
| Possible dementia                       | 996   | 675   | 478   | 498   | 4,524  |
| No dementia                             | 5,575 | 4,540 | 3,688 | 2,873 | 31,743 |
| .                                       | 0     | 1     | 0     | 4     | 20     |
| Total                                   | 8,245 | 7,075 | 5,799 | 4,737 | 47,778 |

| Dementia<br>likelihood, 3<br>categories | 5     | 6     | 7     | Total  |
|---|-------|-------|-------|--------|
| -1                                      | 758   | 866   | 746   | 5,640  |
| Probable dementia                       | 961   | 862   | 770   | 5,851  |
| Possible dementia                       | 779   | 572   | 526   | 4,524  |
| No dementia                             | 5,823 | 4,975 | 4,269 | 31,743 |
| .                                       | 13    | 1     | 1     | 20     |
| 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<br>prob/possible<br>dementia | 1     | 2     | 3     | 4     | 5     | Total  |
|----------------------------------|-------|-------|-------|-------|-------|--------|
| 0                                | 5,575 | 4,540 | 3,688 | 2,873 | 5,823 | 31,743 |
| 1                                | 2,034 | 1,515 | 1,196 | 1,160 | 1,740 | 10,375 |
| .                                | 636   | 1,020 | 915   | 704   | 771   | 5,660  |
| Total                            | 8,245 | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| Ind        |  |             |       |        |
|------------|--|-------------|-------|--------|
| prob/possi |  |             |       |        |
| ble        |  | Survey wave |       |        |
| dementia   |  | 6           | 7     | Total  |
| 0          |  | 4,975       | 4,269 | 31,743 |
| 1          |  | 1,434       | 1,296 | 10,375 |
| .          |  | 867         | 747   | 5,660  |
| Total      |  | 7,276       | 6,312 | 47,778 |

437 \*\*\*\*\*

438 //rate memory

439 gen memory=.

(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

4.

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, |       | Survey wave |       |       |       |        |
| 5=Poor    | 1     | 2           | 3     | 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 |

| Rate<br>memory<br>1=Excell,<br>5=Poor | Survey wave |       | Total  |
|---------------------------------------|-------------|-------|--------|
|                                       | 6           | 7     |        |
| -8                                    | 16          | 16    | 99     |
| -7                                    | 1           | 2     | 14     |
| Excellent                             | 583         | 462   | 4,233  |
| Very good                             | 1,915       | 1,592 | 12,499 |
| Good                                  | 2,516       | 2,238 | 15,984 |
| Fair                                  | 1,332       | 1,201 | 8,398  |
| Poor                                  | 507         | 493   | 3,263  |
| .                                     | 406         | 308   | 3,288  |
| Total                                 | 7,276       | 6,312 | 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 anxety are from the specific interview questions

455 //the others are all if the person has reported the condition in any interview

&gt; wave

456 egen sr\_numconditions1=anycount(sr\_ami\_ever sr\_stroke\_ever sr\_cancer\_ever ///

&gt; sr\_hip\_ever sr\_heart\_dis\_ever sr\_htn\_ever sr\_ra\_ever sr\_osteoprs\_ever

&gt; ///

&gt; sr\_diabetes\_ever sr\_lung\_dis\_ever sr\_dementia\_ever sr\_phq2\_depressed /

&gt; //

&gt; sr\_gad2\_anxiety), values(1)

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<br>medical<br>conditions | Survey wave |       |       |       |       | Total  |
|--------------------------------|-------------|-------|-------|-------|-------|--------|
|                                | 1           | 2     | 3     | 4     | 5     |        |
| 0                              | 570         | 357   | 233   | 161   | 449   | 2,311  |
| 1                              | 1,163       | 840   | 613   | 444   | 1,003 | 5,390  |
| 2                              | 1,685       | 1,287 | 957   | 746   | 1,556 | 8,520  |
| 3                              | 1,606       | 1,275 | 1,029 | 854   | 1,601 | 8,940  |
| 4                              | 1,107       | 931   | 830   | 719   | 1,254 | 6,908  |
| 5                              | 728         | 652   | 578   | 509   | 791   | 4,702  |
| 6                              | 389         | 379   | 298   | 285   | 492   | 2,668  |
| 7                              | 213         | 185   | 183   | 175   | 235   | 1,489  |
| 8                              | 99          | 84    | 90    | 83    | 113   | 714    |
| 9                              | 32          | 40    | 43    | 37    | 47    | 300    |
| 10                             | 15          | 19    | 20    | 15    | 20    | 127    |
| 11                             | 2           | 4     | 8     | 7     | 12    | 52     |
| 12                             | 0           | 3     | 2     | 2     | 3     | 16     |
| 13                             | 0           | 0     | 0     | 0     | 0     | 1      |
| .                              | 636         | 1,019 | 915   | 700   | 758   | 5,640  |
| Total                          | 8,245       | 7,075 | 5,799 | 4,737 | 8,334 | 47,778 |

| Count<br>medical<br>conditions | Survey wave |       | Total  |
|--------------------------------|-------------|-------|--------|
|                                | 6           | 7     |        |
| 0                              | 310         | 231   | 2,311  |
| 1                              | 743         | 584   | 5,390  |
| 2                              | 1,240       | 1,049 | 8,520  |
| 3                              | 1,382       | 1,193 | 8,940  |
| 4                              | 1,103       | 964   | 6,908  |
| 5                              | 753         | 691   | 4,702  |
| 6                              | 431         | 394   | 2,668  |
| 7                              | 242         | 256   | 1,489  |
| 8                              | 122         | 123   | 714    |
| 9                              | 52          | 49    | 300    |
| 10                             | 20          | 18    | 127    |
| 11                             | 9           | 10    | 52     |
| 12                             | 3           | 3     | 16     |
| 13                             | 0           | 1     | 1      |
| .                              | 866         | 746   | 5,640  |
| 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

463

```
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 ///
> 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 ///
> 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_
> new
```

```
465 foreach w in `ivars'{
  2. tab `w'
  3. }
```

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

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

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Heart       |        |         |        |
| Attack, Raw | Freq.  | Percent | Cum.   |
| -8          | 58     | 0.14    | 0.14   |
| -7          | 1      | 0.00    | 0.14   |
| 0           | 39,550 | 93.86   | 94.00  |
| 1           | 2,529  | 6.00    | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 42,138 | 100.00 |  |
|-------|--------|--------|--|

|           |        |         |        |
|-----------|--------|---------|--------|
| Ever Self |        |         |        |
| report    |        |         |        |
| Heart     |        |         |        |
| Attack    | Freq.  | Percent | Cum.   |
| -8        | 120    | 0.28    | 0.28   |
| -7        | 3      | 0.01    | 0.29   |
| 0         | 35,023 | 83.12   | 83.41  |
| 1         | 6,992  | 16.59   | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 42,138 | 100.00 |  |
|-------|--------|--------|--|

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Heart       |        |         |        |
| Attack      |        |         |        |
| since prev  |        |         |        |
| year        | Freq.  | Percent | Cum.   |
| -8          | 50     | 0.14    | 0.14   |
| -7          | 1      | 0.00    | 0.15   |
| 0           | 33,113 | 95.90   | 96.05  |
| 1           | 1,365  | 3.95    | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 34,529 | 100.00 |  |
|-------|--------|--------|--|

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Stroke, Raw | Freq.  | Percent | Cum.   |
| -8          | 60     | 0.14    | 0.14   |
| -7          | 1      | 0.00    | 0.14   |
| 0           | 39,924 | 94.75   | 94.89  |
| 1           | 2,153  | 5.11    | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 42,138 | 100.00 |  |
|-------|--------|--------|--|

|           |        |         |        |
|-----------|--------|---------|--------|
| Ever Self |        |         |        |
| report    |        |         |        |
| Stroke    | Freq.  | Percent | Cum.   |
| -8        | 122    | 0.29    | 0.29   |
| -7        | 3      | 0.01    | 0.30   |
| 0         | 36,555 | 86.75   | 87.05  |
| 1         | 5,458  | 12.95   | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 42,138 | 100.00 |  |
|-------|--------|--------|--|

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Stroke      |        |         |        |
| since prev  |        |         |        |
| year        | Freq.  | Percent | Cum.   |
| -8          | 52     | 0.15    | 0.15   |
| -7          | 1      | 0.00    | 0.15   |
| 0           | 33,215 | 96.19   | 96.35  |
| 1           | 1,261  | 3.65    | 100.00 |

|       |        |        |  |
|-------|--------|--------|--|
| Total | 34,529 | 100.00 |  |
|-------|--------|--------|--|



| Self report<br>Cancer, Raw | Freq.  | Percent | Cum.   |
|----------------------------|--------|---------|--------|
| -8                         | 37     | 0.09    | 0.09   |
| -7                         | 3      | 0.01    | 0.09   |
| 0                          | 37,348 | 88.63   | 88.73  |
| 1                          | 4,750  | 11.27   | 100.00 |
| Total                      | 42,138 | 100.00  |        |

| Ever Self<br>report<br>Cancer | Freq.  | Percent | Cum.   |
|-------------------------------|--------|---------|--------|
| -8                            | 85     | 0.20    | 0.20   |
| -7                            | 10     | 0.02    | 0.23   |
| 0                             | 29,831 | 70.79   | 71.02  |
| 1                             | 12,212 | 28.98   | 100.00 |
| Total                         | 42,138 | 100.00  |        |

| Self report<br>Cancer<br>since prev<br>year | Freq.  | Percent | Cum.   |
|---|--------|---------|--------|
| -8  | 35     | 0.10    | 0.10   |
| -7  | 2      | 0.01    | 0.11   |
| 0   | 31,695 | 91.79   | 91.90  |
| 1   | 2,797  | 8.10    | 100.00 |
| Total                                       | 34,529 | 100.00  |        |

| Self report<br>Hip<br>Fracture,<br>Raw | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8                                     | 15     | 0.04    | 0.04   |
| -7                                     | 1      | 0.00    | 0.04   |
| 0                                      | 41,145 | 97.64   | 97.68  |
| 1                                      | 977    | 2.32    | 100.00 |
| Total                                  | 42,138 | 100.00  |        |

| Ever Self<br>report Hip<br>Fracture<br>(since age<br>50) | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8   | 34     | 0.08    | 0.08   |
| -7   | 3      | 0.01    | 0.09   |
| 0  | 39,564 | 93.89   | 93.98  |
| 1  | 2,537  | 6.02    | 100.00 |
| Total  | 42,138 | 100.00  |        |

| Self report<br>Hip<br>Fracture<br>since prev<br>year | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8   | 11     | 0.03    | 0.03   |
| -7   | 1      | 0.00    | 0.03   |
| 0  | 33,919 | 98.23   | 98.27  |
| 1  | 598    | 1.73    | 100.00 |
| Total  | 34,529 | 100.00  |        |

| sr_heart_dis_raw    | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 77     | 0.18    | 0.18   |
| -7                  | 1      | 0.00    | 0.19   |
| No                  | 32,845 | 77.95   | 78.13  |
| Yes                 | 2,844  | 6.75    | 84.88  |
| Previously reported | 6,371  | 15.12   | 100.00 |
| Total               | 42,138 | 100.00  |        |

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Heart       |        |         |        |
| Disease     | Freq.  | Percent | Cum.   |
| -8          | 77     | 0.18    | 0.18   |
| -7          | 1      | 0.00    | 0.19   |
| 0           | 32,845 | 77.95   | 78.13  |
| 1           | 9,215  | 21.87   | 100.00 |
| Total       | 42,138 | 100.00  |        |

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| Heart       |        |         |        |
| Disease     |        |         |        |
| since prev  |        |         |        |
| year        | Freq.  | Percent | Cum.   |
| -8          | 61     | 0.18    | 0.18   |
| -7          | 1      | 0.00    | 0.18   |
| 0           | 33,034 | 95.67   | 95.85  |
| 1           | 1,433  | 4.15    | 100.00 |
| Total       | 34,529 | 100.00  |        |

| sr_htn_raw          | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 43     | 0.10    | 0.10   |
| No                  | 12,220 | 29.00   | 29.10  |
| Yes                 | 8,331  | 19.77   | 48.87  |
| Previously reported | 21,544 | 51.13   | 100.00 |
| Total               | 42,138 | 100.00  |        |

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| high blood  |        |         |        |
| pressure    | Freq.  | Percent | Cum.   |
| -8          | 43     | 0.10    | 0.10   |
| 0           | 12,220 | 29.00   | 29.10  |
| 1           | 29,875 | 70.90   | 100.00 |
| Total       | 42,138 | 100.00  |        |

|             |        |         |        |
|-------------|--------|---------|--------|
| Self report |        |         |        |
| high blood  |        |         |        |
| pressure    |        |         |        |
| since prev  |        |         |        |
| year        | Freq.  | Percent | Cum.   |
| -8          | 33     | 0.10    | 0.10   |
| 0           | 31,273 | 90.57   | 90.67  |
| 1           | 3,223  | 9.33    | 100.00 |
| Total       | 34,529 | 100.00  |        |

| sr_ra_raw           | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 44     | 0.10    | 0.10   |
| -7                  | 1      | 0.00    | 0.11   |
| No                  | 15,616 | 37.06   | 37.17  |
| Yes                 | 7,551  | 17.92   | 55.09  |
| Previously reported | 18,926 | 44.91   | 100.00 |
| Total               | 42,138 | 100.00  |        |

| Self report<br>arthritis | Freq.  | Percent | Cum.   |
|--------------------------|--------|---------|--------|
| -8                       | 44     | 0.10    | 0.10   |
| -7                       | 1      | 0.00    | 0.11   |
| 0                        | 15,616 | 37.06   | 37.17  |
| 1                        | 26,477 | 62.83   | 100.00 |
| Total                    | 42,138 | 100.00  |        |

| Self report<br>arthritis<br>since prev<br>year | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8   | 29     | 0.08    | 0.08   |
| 0  | 31,197 | 90.35   | 90.43  |
| 1  | 3,303  | 9.57    | 100.00 |
| Total  | 34,529 | 100.00  |        |

| sr_osteoprs_raw     | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 131    | 0.31    | 0.31   |
| -7                  | 1      | 0.00    | 0.31   |
| No                  | 31,161 | 73.95   | 74.26  |
| Yes                 | 3,165  | 7.51    | 81.77  |
| Previously reported | 7,680  | 18.23   | 100.00 |
| Total               | 42,138 | 100.00  |        |

| Self report<br>osteoporosi<br>s | Freq.  | Percent | Cum.   |
|---------------------------------|--------|---------|--------|
| -8                              | 131    | 0.31    | 0.31   |
| -7                              | 1      | 0.00    | 0.31   |
| 0                               | 31,161 | 73.95   | 74.26  |
| 1                               | 10,845 | 25.74   | 100.00 |
| Total                           | 42,138 | 100.00  |        |

| Self report<br>osteoporosi<br>s since<br>prev year | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8   | 104    | 0.30    | 0.30   |
| -7   | 1      | 0.00    | 0.30   |
| 0  | 32,818 | 95.04   | 95.35  |
| 1  | 1,606  | 4.65    | 100.00 |
| Total  | 34,529 | 100.00  |        |

| sr_diabetes_raw     | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 22     | 0.05    | 0.05   |
| -7                  | 2      | 0.00    | 0.06   |
| No                  | 30,435 | 72.23   | 72.28  |
| Yes                 | 3,355  | 7.96    | 80.25  |
| Previously reported | 8,324  | 19.75   | 100.00 |
| Total               | 42,138 | 100.00  |        |

| Self report<br>diabetes | Freq.  | Percent | Cum.   |
|-------------------------|--------|---------|--------|
| -8                      | 22     | 0.05    | 0.05   |
| -7                      | 2      | 0.00    | 0.06   |
| 0                       | 30,435 | 72.23   | 72.28  |
| 1                       | 11,679 | 27.72   | 100.00 |
| Total                   | 42,138 | 100.00  |        |

| Self report<br>diabetes<br>since prev<br>year | Freq.  | Percent | Cum.   |
|---|--------|---------|--------|
| -8  | 20     | 0.06    | 0.06   |
| -7  | 1      | 0.00    | 0.06   |
| 0   | 33,078 | 95.80   | 95.86  |
| 1   | 1,430  | 4.14    | 100.00 |
| Total   | 34,529 | 100.00  |        |

| sr_lung_dis_raw     | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 30     | 0.07    | 0.07   |
| -7                  | 1      | 0.00    | 0.07   |
| No                  | 34,367 | 81.56   | 81.63  |
| Yes                 | 2,362  | 5.61    | 87.24  |
| Previously reported | 5,378  | 12.76   | 100.00 |
| Total               | 42,138 | 100.00  |        |

| Self report<br>Lung<br>Disease | Freq.  | Percent | Cum.   |
|--------------------------------|--------|---------|--------|
| -8                             | 30     | 0.07    | 0.07   |
| -7                             | 1      | 0.00    | 0.07   |
| 0                              | 34,367 | 81.56   | 81.63  |
| 1                              | 7,740  | 18.37   | 100.00 |
| Total                          | 42,138 | 100.00  |        |

| Self report<br>Lung<br>Disease<br>since prev<br>year | Freq.  | Percent | Cum.   |
|--|--------|---------|--------|
| -8   | 25     | 0.07    | 0.07   |
| -7   | 1      | 0.00    | 0.08   |
| 0  | 33,295 | 96.43   | 96.50  |
| 1  | 1,208  | 3.50    | 100.00 |
| Total  | 34,529 | 100.00  |        |

| sr_dementia_raw     | Freq.  | Percent | Cum.   |
|---------------------|--------|---------|--------|
| -8                  | 33     | 0.08    | 0.08   |
| -7                  | 2      | 0.00    | 0.08   |
| No                  | 38,787 | 92.05   | 92.13  |
| Yes                 | 1,371  | 3.25    | 95.38  |
| Previously reported | 1,945  | 4.62    | 100.00 |
| Total               | 42,138 | 100.00  |        |

| Self report | Freq.  | Percent | Cum.   |
|-------------|--------|---------|--------|
| Dementia    |        |         |        |
| -8          | 33     | 0.08    | 0.08   |
| -7          | 2      | 0.00    | 0.08   |
| 0           | 38,787 | 92.05   | 92.13  |
| 1           | 3,316  | 7.87    | 100.00 |
| Total       | 42,138 | 100.00  |        |

| Self report | Freq.  | Percent | Cum.   |
|-------------|--------|---------|--------|
| Dementia    |        |         |        |
| since prev  |        |         |        |
| year        |        |         |        |
| -8          | 27     | 0.08    | 0.08   |
| -7          | 2      | 0.01    | 0.08   |
| 0           | 33,586 | 97.27   | 97.35  |
| 1           | 914    | 2.65    | 100.00 |
| Total       | 34,529 | 100.00  |        |

466

467 \*\*\*\*\*

468 save round\_1\_{w}\_cleanv2.dta, replace  
 file round\_1\_7\_cleanv2.dta saved

469

470 \*\*\*\*\*

471 log close

```

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  log:  E:\nhats\nhats_code\NHATS data setup\logs\3_nhats_cleaning_18_Apr_
> 2019.smcl
  log type: text
  closed on: 18 Apr 2019, 13:08:17

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