STATA®
Statistics/Data Analysis

```
        --------------------------------------------------------------------------------
        name:  <unnamed>
         log:  E:\nhats\nhats_code\NHATS data setup\logs\6_nhats_cleaning__4_Apr_2
  > 019.smcl
    log type:  text
   opened on:   4 Apr 2019, 12:52:26

1 .
2 .
3 .
4 . *********************************************
5 .
6 .
7 . //Pull dates from restricted tracker
8 . use "E:\nhats\data\NHATS Restricted\NHATS Round 7 Tracker Restricted STATA\NHA
  > TS_Round_7_Tracker_Restricted.dta", clear

9 . keep spid r*spstatdtdy

10. rename r*spstatdtdy spstatdtdy*

11. reshape long spstatdtdy, i(spid) j(wave)
   (note: j = 1 2 3 4 5 6 7)

   Data                               wide   ->   long
   -----------------------------------------------------------------------------
   Number of obs.                     19530   ->   136710
   Number of variables                    8   ->        3
   j variable (7 values)                     ->   wave
   xij variables:
   spstatdtdy1 spstatdtdy2 ... spstatdtdy7   ->   spstatdtdy
   -----------------------------------------------------------------------------

12. tempfile resttrack

13. save `resttrack'
   file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000001.tmp saved

14.
15. //Does not need to change, unless get new metro file.
16.
17. //7/13/17--add in metro/nonmetro var
18. use "E:\nhats\data\NHATS Public\NHATS_Round_1_6_MetNonmet_STATA\NHATS_Round_1_
  > 6_MetNonmet.dta", clear

19. forvalues w=1/6 {
     2. gen metro_ind`w'=r`w'd==1 if inrange(r`w'd,1,2)
     3. }
   (4,182 missing values generated)
   (5,352 missing values generated)
   (6,628 missing values generated)
   (7,690 missing values generated)
   (4,093 missing values generated)
   (5,151 missing values generated)

20. reshape long metro_ind, i(spid) j(wave)
   (note: j = 1 2 3 4 5 6)

   Data                               wide   ->   long
   -----------------------------------------------------------------------------
   Number of obs.                     12427   ->   74562
   Number of variables                   13   ->        9
   j variable (6 values)                     ->   wave
   xij variables:
    metro_ind1 metro_ind2 ... metro_ind6   ->   metro_ind
   -----------------------------------------------------------------------------
```

```
21. label var metro_ind "Lives in metropolitan area"

22. note metro_ind: From metro non-metro file, r(wave)dmetnomet raw variable.

23.
24. label define metro_ind  0 "Non-Metro" 1 "Metro"

25. label values metro_ind metro_ind

26.
27. tempfile metro

28. save `metro'
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000002.tmp saved

29.
30. cd "${work}"
  E:\nhats\data\NHATS working data

31.
32. use round_1_$w_clean_helper_added.dta

33. merge 1:1 spid wave using `metro', keep(match master) nogen

        Result                          # of obs.
        -----------------------------------------
        not matched                         6,312
            from master                     6,312
            from using                          0

        matched                            41,466
        -----------------------------------------

34.
35.
36. // 3/21/2019--Adding LM questions from LML interview section, P01 Aldridge
37.
38. gen qoc_lml_e=.
  (47,778 missing values generated)

39. replace qoc_lml_e=1 if ratecare==1
  (1,317 real changes made)

40. replace qoc_lml_e=0 if inrange(ratecare,2,5)
  (1,259 real changes made)

41. note qoc_lml_e: Quality of Care rated as excellent. Coming from LM11 (Waves 2+
  > )

42. note qoc_lml_e: Located in NHATS Setup, under Part 7.

43. note qoc_lml_e: Created: 3/21/19-MH

44. /*
  > gen qoc_lml=ratecare
  > replace qoc_lml=. if inlist(ratecare,-8,-7,-1,6)
  > */
45.
46. foreach x in pain bre sad{
    2. gen unmet_`x'_lml=.
    3. replace unmet_`x'_lml=0 if inrange(`x', 1, 2)
    4. replace unmet_`x'_lml=1 if (`x'==1 & `x'hlp==2) | (`x'==1 & `x'hlp==1 & `x'
  > hlpam==1)
    5. }
  (47,778 missing values generated)
  (2,403 real changes made)
  (270 real changes made)
  (47,778 missing values generated)
  (2,443 real changes made)
  (190 real changes made)
  (47,778 missing values generated)
  (2,334 real changes made)
```

```
   (432 real changes made)

47. note unmet_pain_lml: Unmet needs for pain management. Coming from LM1, LM1A, L
  > M1B (Waves 2+)

48. note unmet_pain_lml: Located in NHATS Setup, under Part 7.

49. note unmet_pain_lml: Created: 3/21/19-MH

50.
51. note unmet_bre_lml: Unmet needs for dyspnea (breathing) management. Coming fro
  > m LM2, LM2A, LM2B (Waves 2+)

52. note unmet_bre_lml: Located in NHATS Setup, under Part 7.

53. note unmet_bre_lml: Created: 3/21/19-MH

54.
55. note unmet_sad_lml: Unmet needs for sadness (anxiety) management. Coming from
  > LM3, LM3A, LM3B (Waves 2+)

56. note unmet_sad_lml: Located in NHATS Setup, under Part 7.

57. note unmet_sad_lml: Created: 3/21/19-MH

58.
59. foreach x in respect informed{
    2. gen `x'_lml=.
    3. replace `x'_lml=0 if inrange(`x', 1, 4)
    4. replace `x'_lml=1 if inrange(`x', 2,4)
    5. }
   (47,778 missing values generated)
   (2,558 real changes made)
   (273 real changes made)
   (47,778 missing values generated)
   (2,552 real changes made)
   (430 real changes made)

60.
61. note respect_lml: Not always treated with respect. Coming from LM7 (Waves 2+)

62. note respect_lml: Located in NHATS Setup, under Part 7.

63. note respect_lml: Created: 3/21/19-MH

64.
65. note informed_lml: Family not always informed for individuals condition. Comin
  > g from LM8 (Waves 2+)

66. note informed_lml: Located in NHATS Setup, under Part 7.

67. note informed_lml: Created: 3/21/19-MH

68.
69. foreach x in caredecis carenowan{
    2. gen `x'_lml=.
    3. replace `x'_lml=0 if inlist(`x', 1, 2)
    4. replace `x'_lml=1 if `x'==1
    5. }
   (47,778 missing values generated)
   (2,499 real changes made)
   (182 real changes made)
   (47,778 missing values generated)
   (2,493 real changes made)
   (231 real changes made)
```

70.
71. note caredecis_lml: Inadequate input about care decisions. Coming from LM4 (Wa
  > ves 2+)

72. note caredecis_lml: Located in NHATS Setup, under Part 7.

73. note caredecis_lml: Created: 3/21/19-MH

74.
75. note carenowan_lml: Care not consistent with goals. Unwanted Care. Coming from
  > LM5 (Waves 2+)

76. note carenowan_lml: Located in NHATS Setup, under Part 7.

77. note carenowan_lml: Created: 3/21/19-MH

78.
79.
80. //1/28/2019-Advance Care Planning based off of Ornstein instructions
81.
82. gen no_acp=0

83. replace no_acp=1 if inlist(eoltalk, 2, -8, -7) & inlist(poweratty, 2, -7, -8)
  > & inlist(livngwill, 2, -7, -8)
  (580 real changes made)

84. replace no_acp=. if inlist(eoltalk, -1, -9, .) | inlist(poweratty, -1, -9, .)
  > | inlist(livngwill, -1, -9, .)
  (45,763 real changes made, 45,763 to missing)

85. note no_acp: Only in Rd2. no_acp=1 if eoltalk=2,-7,-8 & poweratty=2,-7,-8 & li
  > vingwill=2,-7,-8.

86. note no_acp: No Advance Care Planning based off of talk about EOL care, legal
  > arrangements, and living will all being no.

87. note no_acp: Located in NHATS Setup, under Part 7.

88. note no_acp: Created: 1/28/19-MH

89.
90. gen formal_acp=0

91. replace formal_acp=1 if inlist(eoltalk, 2, -8, -7) & (poweratty==1 | livngwill
  > ==1)
  (279 real changes made)

92. replace formal_acp=. if inlist(eoltalk, -1, -9, .) | inlist(poweratty, -1, -9,
  > .) | inlist(livngwill, -1, -9, .)
  (45,763 real changes made, 45,763 to missing)

93. note formal_acp: Only in Rd2. formal_acp=1 if eoltalk=2,-7,-8 & (poweratty=1 |
  > livingwill=1)

94. note formal_acp: Formal Advance Care Planning based off of not talking about E
  > OL care and either having ///
  > having legal arrangements or having a living will.

95. note formal_acp: Located in NHATS Setup, under Part 7.

```
96. note formal_acp: Created: 1/28/19-MH

97.
98. gen informal_acp=0

99. replace informal_acp=1 if eoltalk==1 & inlist(poweratty, 2, -7, -8) & inlist(l
  > ivngwill, 2, -7, -8)
   (243 real changes made)

100 replace informal_acp=. if inlist(eoltalk, -1, -9, .) | inlist(poweratty, -1, -
  > 9, .) | inlist(livngwill, -1, -9, .)
   (45,763 real changes made, 45,763 to missing)

101 note informal_acp: Only in Rd2. informal_acp=1 if eoltalk=1 & poweratty=2,-7,-
  > 8 & livingwill=2,-7,-8

102 note informal_acp: Informal Advance Care Planning based off of talking about E
  > OL care and not having ///
  > having legal arrangements and not having a living will.

103 note informal_acp: Located in NHATS Setup, under Part 7.

104 note informal_acp: Created: 1/28/19-MH

105
106 gen acp=0

107 replace acp=1 if eoltalk==1 & (poweratty==1 | livngwill==1)
   (913 real changes made)

108 replace acp=. if inlist(eoltalk, -1, -9, .) | inlist(poweratty, -1, -9, .) | i
  > nlist(livngwill, -1, -9, .)
   (45,763 real changes made, 45,763 to missing)

109 note formal_acp: Only in Rd2. formal_acp=1 if eoltalk=2,-7,-8 & (poweratty=1 |
  >  livingwill=1)

110 note formal_acp: Formal Advance Care Planning based off of not talking about E
  > OL care and either having ///
  > having legal arrangements or having a living will.

111 note formal_acp: Located in NHATS Setup, under Part 7.

112 note formal_acp: Created: 1/28/19-MH

113
114
115 label var no_acp "No Advance care planning, 1=yes"

116 label var formal_acp "Formal Advance care planning, 1=yes"

117 label var informal_acp "Informal Advance care planning, 1=yes"

118 label var acp "Advance care planning (Formal & Informal), 1=yes"

119 label define acp  0 "No" 1 "Yes"

120 foreach x in no_acp formal_acp informal_acp acp {
    2. label values `x' acp
    3. }
```

```
121
122
123 foreach x in no_acp formal_acp informal_acp acp {
  2. tab `x' if wave==2 , m
  3. }
```

```
 No Advance |
       care |
  planning, |
     1=yes |      Freq.      Percent        Cum.
------------+-----------------------------------
        No |      1,435        20.28       20.28
       Yes |        580         8.20       28.48
         . |      5,060        71.52      100.00
------------+-----------------------------------
     Total |      7,075       100.00
```

```
    Formal |
   Advance |
      care |
 planning, |
     1=yes |      Freq.      Percent        Cum.
------------+-----------------------------------
        No |      1,736        24.54       24.54
       Yes |        279         3.94       28.48
         . |      5,060        71.52      100.00
------------+-----------------------------------
     Total |      7,075       100.00
```

```
  Informal |
   Advance |
      care |
 planning, |
     1=yes |      Freq.      Percent        Cum.
------------+-----------------------------------
        No |      1,772        25.05       25.05
       Yes |        243         3.43       28.48
         . |      5,060        71.52      100.00
------------+-----------------------------------
     Total |      7,075       100.00
```

```
   Advance |
      care |
  planning |
 (Formal & |
 Informal),|
     1=yes |      Freq.      Percent        Cum.
------------+-----------------------------------
        No |      1,102        15.58       15.58
       Yes |        913        12.90       28.48
         . |      5,060        71.52      100.00
------------+-----------------------------------
     Total |      7,075       100.00
```

```
124
125 // 8/10/2018 Add in 2011 weight for rd 5,6
126 rename an2011wgt0 an2011wgt

127 label var an2011wgt "2011 weights"
```

```
128 note an2011wgt: an2011wgt0

129 note an2011wgt: Analytic Weight for 2011 cohort, for rounds 5+

130 note formal_acp: Located in NHATS Setup, under Part 7.

131 note formal_acp: Created: 8/10/18-MH

132
133
134 rename trfinwgt0 trfinwgt

135 rename tr2011wgt0 tr2011wgt

136
137 //Add in 7/3/18
138
139 foreach w in 1 5{
    2.          replace serarmfor=1 if serarmfor==1 & wave==`w'
    3.          replace serarmfor=0 if serarmfor==2 & wave==`w'
    4.          replace serarmfor=. if serarmfor==-7 & wave==`w'
    5.          replace serarmfor=. if serarmfor==-8 & wave==`w'
    6. }
  (0 real changes made)
  (5,740 real changes made)
  (7 real changes made, 7 to missing)
  (74 real changes made, 74 to missing)
  (0 real changes made)
  (5,661 real changes made)
  (4 real changes made, 4 to missing)
  (185 real changes made, 185 to missing)

140 label var serarmfor "Served in Armed Forces"

141 sort spid wave

142 by spid: carryforward serarmfor, replace
  serarmfor:   (30900 real changes made)

143 notes drop serarmfor
    (1 note dropped)

144 note serarmfor: Asked in rounds 1,5. Used serarmfor to find.

145 note serarmfor: Served in Arm Forces variable, carried previous value to new w
  > ave.

146 note formal_acp: Located in NHATS Setup, under Part 7.

147 note formal_acp: Created: 7/3/18-MH

148
149
150 //Add in 4/6/18
151 label var dresslf "Often you Dress Yourself"

152
153 label var dresdif "Difficulty when using Special Items by Self"

154
```

```
155 label var ntlvrmslp "Often had to Stay in Bed"

156
157 label var eatdev "Ever use Adapted Utensils"

158
159
160 ////// 4/2/2018--Adding in income quartile
  > sort wave

161 forvalues w=1/$w {
    2. xtile income_quart`w'=aveincome [aw=anfinwgt0] if wave==`w', nq(4)
    3. }

162 egen income_quart=rowmax(income_quart*)
  (3517 missing values generated)

163
164 forvalues w=1/$w{
    2. drop income_quart`w'
    3. }

165
166 note income_quart: Use aveincome to create variable.

167 note income_quart: Create an income quartile measure. Weighted.

168 note income_quart: Located in NHATS Setup, under Part 7.

169 note income_quart: Created: 4/2/18-MH

170
171 label var income_quart "Quartile of Income"

172 label define income_quart 1 "Bottom" 2 "Second" 3 "Third" 4 "Top"

173 label values income_quart income_quart

174
175 ///// 3/26/18 --Adding in Hospice and place died variables.
  >
176 label var placedied "Place of Death"

177 replace placedied=. if inlist(placedied,-1,-8)
  (36,872 real changes made, 36,872 to missing)

178 replace placedied=6 if placedied==91
  (85 real changes made)

179 note placedied: placedied (6=91) (.=-1,-8) all else the same.

180 note placedied: Place died variable from LML interview.

181 note placedied: Located in NHATS Setup, under Part 7.

182 note placedied: Created: 3/26/18-MH

183
184 replace hospice2=. if inlist(hospice2,-1,-8)
  (39,325 real changes made, 39,325 to missing)
```

```
185 note hospice2: hospice2 variable, (.=-1,-1)

186 note hospice2: Hospice at other place, list.

187 note hospice2: Located in NHATS Setup, under Part 7.

188 note hospice2: Created: 3/26/18-MH

189
190 rename hospcelml hospicelml

191 foreach x in hospice1 hospicelml {
    2. replace `x'=. if inlist(`x',-1,-8)
    3. replace `x'=0 if `x'==2
    4. }
  (38,761 real changes made, 38,761 to missing)
  (569 real changes made)
  (30,754 real changes made, 30,754 to missing)
  (972 real changes made)

192
193 note hospice1: hospice1 variable (0=2) (.=-1,-1)

194 note hospice1: Hospice at Nursing Home.

195 note hospice1: Located in NHATS Setup, under Part 7.

196 note hospice1: Created: 3/26/18-MH

197
198 note hospicelml: hospicelml

199 note hospicelml: Hospice at other place, list.

200 note hospicelml: Located in NHATS Setup, under Part 7.

201 note hospicelml: Created: 3/26/18-MH

202
203 label var hospice1 "Hopsice at Nursing Home"

204 label var hospice2 "Hospice Other Place"

205 label var hospicelml "Hospice Care in Last Month"

206
207
208 ///// 3/14/18 --Adding in Frailty underlying series
  >
209 //activities done twice (grip test, walk test..)
210
211 forvalues i=1/2{
    2. capture drop gripsc`i'
    3. rename grp`i'rdng gripsc`i'
    4. rename wlkc`i'secs walksec`i'
    5. rename wlk`i'hndr walkhndr`i'
    6.
212 replace gripsc`i'=. if inlist(gripsc`i', -1, -9, -7, -8)
    7. replace walksec`i'=. if inlist(walksec`i', -1, -9, -7, -8)
    8. replace walkhndr`i'=. if inlist(walkhndr`i', -1, -9, -7, -8)
    9. }
  (12,833 real changes made, 12,833 to missing)
  (12,985 real changes made, 12,985 to missing)
  (13,083 real changes made, 13,083 to missing)
  (12,915 real changes made, 12,915 to missing)
  (13,044 real changes made, 13,044 to missing)
  (13,142 real changes made, 13,142 to missing)
```

```
213
214 label var gripsc1 "GRP1 Display Reading"

215 label var gripsc2 "GRP2 Display Reading"

216 label var walksec1 "Secs Hld Walking Course1"

217 label var walksec2 "Secs Hld Walking Course2"

218 label var walkhndr1 "Hnrds Hld Walking Course1"

219 label var walkhndr2 "Hnrds Hld Walking Course2"

220 /*
  > forvalues i=1/2{
  > capture drop walk`i'
  > if `i'==1 egen walk`i'=rowmax(wa*wlkc1secs)
  > if `i'==2 egen walk`i'=rowmax(wa*wlk1hndr)
  > replace walk`i'=. if inlist(walk`i', -1, -9, -7, -8)
  > }
  > rename walk1 walksec
  > rename walk2 walkhnrds
  > label var walk1 "Secs Hld Walking Course)
  > */
221
222 foreach x in origwksc nhatswksc nhatsgrav nhatsgrb{
    2. capture drop `x'
    3. gen `x'=.
    4. replace `x'=d`x' if  inlist( d`x', 0, 1, 2, 3, 4)
    5. }
  (47,778 missing values generated)
  (39,737 real changes made)
  (47,778 missing values generated)
  (39,737 real changes made)
  (47,778 missing values generated)
  (39,619 real changes made)
  (47,778 missing values generated)
  (39,619 real changes made)

223
224 label var origwksc "Original Walk Score"

225 label var nhatswksc "NHATS Walk Score"

226 label var nhatsgrav "NHATS Avg. Grip Score"

227 label var nhatsgrb "NHATS Best Grip Score"

228
229
230 local a lst10pnds trytolose

231 local b evrgowalk vigoractv

232
233 foreach x in `a' `b'{
    2. capture drop `x'_n
    3. gen `x'_n=.
    4. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
```

```
234
235
236 foreach x in `a'{
     2. replace `x'_n=0 if `x'==2
     3. replace `x'_n=1 if `x'==1
     4. drop `x'
     5. rename `x'_n `x'
     6. }
  (30,263 real changes made)
  (11,278 real changes made)
  (7,066 real changes made)
  (4,211 real changes made)

237
238 foreach y in `b'{
     2. replace `y'_n=0 if `y'==2
     3. replace `y'_n=1 if `y'==1
     4. drop `y'
     5. rename `y'_n `y'
     6. }
  (17,772 real changes made)
  (24,335 real changes made)
  (27,384 real changes made)
  (14,710 real changes made)

239
240
241
242 label var lst10pnds "Lost 10 Pounds in Last Yr."

243 label var trytolose "Were You Trying to Lose Weight"

244 label var evrgowalk "Ever Go Walking for Exercise"

245 label var vigoractv "Ever Vigorous Activities"

246
247
248 capture drop unwgtloss lowphysact

249 gen unwgtloss=.
  (47,778 missing values generated)

250 gen lowphysact=.
  (47,778 missing values generated)

251 replace unwgtloss=0 if lst10pnds==0 | trytolose==1
  (34,474 real changes made)

252 replace unwgtloss=1 if lst10pnds==1 & trytolose==0
  (7,066 real changes made)

253 replace lowphysact=0 if evrgowalk==1 | vigoractv==1
  (27,868 real changes made)

254 replace lowphysact=1 if evrgowalk==0 & vigoractv==0
  (14,227 real changes made)

255
256 label var unwgtloss "Unintentional Weight Loss"
```

```
257 label var lowphysact "Low Physical Activity"

258
259 capture drop lowenrgy

260 replace lowenergy=. if inlist(lowenergy, -9, -8, -7, -1)
   (5,770 real changes made, 5,770 to missing)

261 replace lowenergy=0 if lowenergy==2
   (22,075 real changes made)

262 label var lowenergy "Low Energy in Last Month"

263
264
265 ///// 3/7/18 --Adding in Well-Being questions
   > /// Inapplicable is people who have no interview, had a proxy, or died. turned
   >  to missing.
   >
266 foreach j in 1 2 4 {
    2.         forvalues i=1/4 {
    3.                 capture drop wbq`j'`i'
    4.                 gen wbq`j'`i'=.
    5.         }
    6. }
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)
   (47,778 missing values generated)

267 drop wbq44

268
269 forvalues i=1/4 {
    2. replace wbq1`i'=1 if offelche`i'==4
    3. replace wbq1`i'=2 if offelche`i'==3
    4. replace wbq1`i'=3 if offelche`i'==2
    5. replace wbq1`i'=4 if offelche`i'==1
    6. replace wbq1`i'=0 if offelche`i'==5
    7. replace wbq1`i'=5 if (offelche`i'==-7 | offelche`i'==-8)
    8. }
   (1,135 real changes made)
   (6,454 real changes made)
   (19,247 real changes made)
   (11,415 real changes made)
   (376 real changes made)
   (584 real changes made)
   (11,928 real changes made)
   (9,406 real changes made)
   (1,729 real changes made)
   (1,302 real changes made)
   (14,266 real changes made)
   (580 real changes made)
   (2,829 real changes made)
   (8,411 real changes made)
   (14,695 real changes made)
   (11,393 real changes made)
   (1,211 real changes made)
   (672 real changes made)
   (18,763 real changes made)
   (9,615 real changes made)
   (1,193 real changes made)
   (710 real changes made)
   (8,342 real changes made)
```

```
   (588 real changes made)
270
271
272 label var wbq11 "Often you Feel Cheerful"

273 rename wbq11 oftcheer

274 label define oftcheer 0 "Never" 1 "Rarely (Once a Week or Less)" 2 "Some Days(
  > 2-4 Days a Week)" ///
  > 3 "Most Days(5-6 Days a Week)" 4 "Every Day (7 Days a Week)" 5 "RF/DK"

275 label values oftcheer oftcheer

276 label var wbq12 "Often you Feel Bored"

277 rename wbq12 oftbored

278 label values oftbored oftcheer

279 label var wbq13 "Often you Feel Full of Life"

280 rename wbq13 oftfol

281 label values oftfol oftcheer

282 label var wbq14 "Often you Feel Upset"

283 rename wbq14 oftupset

284 label values oftupset oftcheer

285
286
287
288 forvalues i=1/4 {
    2.  replace wbq2`i'=1 if truestme`i'==3
    3.  replace wbq2`i'=2 if truestme`i'==2
    4.  replace wbq2`i'=3 if truestme`i'==1
    5.  replace wbq2`i'=4 if (truestme`i'==-7 | truestme`i'==-8)
    6.  }
  (893 real changes made)
  (5,980 real changes made)
  (31,558 real changes made)
  (780 real changes made)
  (648 real changes made)
  (5,649 real changes made)
  (32,273 real changes made)
  (641 real changes made)
  (27,259 real changes made)
  (6,731 real changes made)
  (4,340 real changes made)
  (881 real changes made)
  (1,497 real changes made)
  (5,502 real changes made)
  (31,570 real changes made)
  (642 real changes made)

289
290
```

```
291 label var wbq21 "Life has Meaning Purpose"

292 rename wbq21 lifemean

293 label define lifemean 1 "Agree Not at All" 2 "Agree a Little" 3 "Agree A Lot"
  > 4 "RF/DK"

294 label values lifemean lifemean

295 label var wbq22 "Feels Confident"

296 rename wbq22 confident

297 label values confident lifemean

298 label var wbq23 "Gave up Improving Life"

299 rename wbq23 giveup

300 label values giveup lifemean

301 label var wbq24 "Likes Living Situation"

302 rename wbq24 livingsit

303 label values livingsit lifemean

304
305
306 forvalues i=1/3 {
    2. replace wbq4`i'=1 if agrwstmt`i'==3
    3. replace wbq4`i'=2 if agrwstmt`i'==2
    4. replace wbq4`i'=3 if agrwstmt`i'==1
    5. replace wbq4`i'=4 if (agrwstmt`i'==-7 | agrwstmt`i'==-8)
    6. }
  (26,335 real changes made)
  (7,963 real changes made)
  (4,109 real changes made)
  (804 real changes made)
  (562 real changes made)
  (3,679 real changes made)
  (34,316 real changes made)
  (654 real changes made)
  (4,523 real changes made)
  (13,508 real changes made)
  (20,398 real changes made)
  (782 real changes made)

307
308
309 label var wbq41 "Self Determination"

310 rename wbq41 selfdeter

311 label values selfdeter lifemean

312 label var wbq42 "Want-Finds Way to Do"

313 rename wbq42 findway
```

```
314 label values findway lifemean

315 label var wbq43 "Easily Adjust to Change"

316 rename wbq43 adjchg

317 label values adjchg lifemean

318
319
320 capture drop agefeel

321 egen agefeel= rowmax(ageyofeel)

322 replace agefeel=. if agefeel==-9 | agefeel==-8 | agefeel==-7 | agefeel==-1
   (10,818 real changes made, 10,818 to missing)

323 label var agefeel "Age you Feel Most Times"

324
325
326 ///// 3/2/18 --Adding in meal skippped questions; update 3/13 added in EW18
  > //missing if in NH-FQ, dead, in NH-FQ R1 & R2
327
328 local ew mealskip1 nopayhous nopayutil nopaymed

329
330 foreach x in `ew'{
   2. tab `x'
   3. replace `x'=0 if `x'==2
   4. replace `x'=1 if `x'==1
   5. replace `x'=. if inlist(`x', -9,-8,-7,-1)
   6. }
```

```
  R2 EW16 SKIP MEALS NO |
              MONEY |      Freq.      Percent       Cum.
---------------------+---------------------------------
         -9 Missing |      1,039        2.63        2.63
              -8 DK |        574        1.45        4.08
              -7 RF |        110        0.28        4.36
    -1 Inapplicable |      3,965       10.03       14.39
             1 YES |        341        0.86       15.25
              2 NO |     33,504       84.75      100.00
---------------------+---------------------------------
             Total |     39,533      100.00
  (33,504 real changes made)
  (0 real changes made)
  (5,688 real changes made, 5,688 to missing)


  R2 EW18 NO MONEY FOR |
            HOUSING |      Freq.      Percent       Cum.
---------------------+---------------------------------
         -9 Missing |      1,039        2.63        2.63
              -8 DK |        624        1.58        4.21
              -7 RF |        189        0.48        4.68
    -1 Inapplicable |      3,965       10.03       14.71
             1 YES |        744        1.88       16.60
              2 NO |     32,972       83.40      100.00
---------------------+---------------------------------
             Total |     39,533      100.00
  (32,972 real changes made)
  (0 real changes made)
  (5,817 real changes made, 5,817 to missing)
```

```
   R2 EW18 NO MONEY FOR |
            UTILITIES |      Freq.      Percent        Cum.
---------------------+---------------------------------
          -9 Missing |      1,039         2.63         2.63
              -8 DK |        621         1.57         4.20
              -7 RF |        146         0.37         4.57
     -1 Inapplicable |      3,965        10.03        14.60
              1 YES |      1,214         3.07        17.67
               2 NO |     32,548        82.33       100.00
---------------------+---------------------------------
               Total |     39,533       100.00
 (32,548 real changes made)
 (0 real changes made)
 (5,771 real changes made, 5,771 to missing)

   R2 EW18 NO MONEY FOR |
             MEDICAL |      Freq.      Percent        Cum.
---------------------+---------------------------------
          -9 Missing |      1,039         2.63         2.63
              -8 DK |        629         1.59         4.22
              -7 RF |        145         0.37         4.59
     -1 Inapplicable |      3,965        10.03        14.62
              1 YES |      1,247         3.15        17.77
               2 NO |     32,508        82.23       100.00
---------------------+---------------------------------
               Total |     39,533       100.00
 (32,508 real changes made)
 (0 real changes made)
 (5,778 real changes made, 5,778 to missing)

331
332
333 label var mealskip1 "No Money, Meals Skipped"

334 label var nopayhous "No Money for Housing"

335 label var nopayutil "No Money for Utilities"

336 label var nopaymed "No Money for Medical"

337
338 label define mealskip 0 "No" 1 "Yes"

339 foreach x in `ew' {
  2. label values `ew' mealskip
  3. }

340 rename mealskip1 mealskip

341
342 gen mealskipnum=.
  (47,778 missing values generated)

343
344
345 replace mealskipnum=0 if mealskip2==-1 & mealskip==0
  (33,504 real changes made)

346 replace mealskipnum=1 if mealskip2==4
  (188 real changes made)
```

```
347 replace mealskipnum=2 if mealskip2==3
   (79 real changes made)

348 replace mealskipnum=3 if mealskip2==2
   (26 real changes made)

349 replace mealskipnum=4 if mealskip2==1
   (40 real changes made)

350
351
352 label var mealskipnum "How Often Meals Skipped"

353 label define mealskipnum1 0 "No" 1 "A Few Days" 2 "Several Days(less than half
  > )" ///
  > 3 "More than Half the Days" 4 " Nearly Every Day" 5 "RF/DK"

354 label values mealskipnum mealskipnum1

355
356
357 ///// 12/5/17 --Adding in Cancer
  >
358 // recode hc1cancerty1 (-1 2=0) (-9 -8 =.), gen (sr_skincancer_had)
359
360 // From sensitive data, cancerty1 was from non-sensitive
361 //recode cancerty1 (-1 2=0) (-9 -8 =.), gen (sr_skincancer_had)
362 foreach x in sr_skincancer_had sr_breastcancer_had sr_prostatecancer_had sr_bl
  > addercancer_had ///
  > sr_crvovrnutrncancer_had sr_coloncancer_had sr_kidneycancer_had sr_othercancer
  > _had{
    2. gen `x'=.
    3. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)

363
364 replace sr_skincancer_had=cancerty1 if wave==1
   (8,245 real changes made)

365 replace sr_breastcancer_had=hc1cancerty2 if wave==1
   (8,245 real changes made)

366 replace sr_prostatecancer_had=hc1cancerty3 if wave==1
   (8,245 real changes made)

367 replace sr_bladdercancer_had=hc1cancerty4 if wave==1
   (8,245 real changes made)

368 replace sr_crvovrnutrncancer_had=hc1cancerty5 if wave==1
   (8,245 real changes made)

369 replace sr_coloncancer_had=hc1cancerty6 if wave==1
   (8,245 real changes made)
```

```
370 replace sr_kidneycancer_had=hc1cancerty7 if wave==1
  (8,245 real changes made)

371 replace sr_othercancer_had=hc1cancerty8 if wave==1
  (8,245 real changes made)

372
373 forvalues w=4/$w{
  2.   replace sr_skincancer_had=cancerty1 if wave==`w'
  3.   replace sr_breastcancer_had=hc`w'cancerty2 if wave==`w'
  4.   replace sr_prostatecancer_had=hc`w'cancerty3 if wave==`w'
  5.   replace sr_bladdercancer_had=hc`w'cancerty4 if wave==`w'
  6.   replace sr_crvovrnutrncancer_had=hc`w'cancerty5 if wave==`w'
  7.   replace sr_coloncancer_had=hc`w'cancerty6 if wave==`w'
  8.   replace sr_kidneycancer_had=hc`w'cancerty7 if wave==`w'
  9.   replace sr_othercancer_had=hc`w'cancerty8 if wave==`w'
 10. }
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)

374
375
376 foreach x in sr_skincancer_had sr_breastcancer_had sr_prostatecancer_had sr_bl
  > addercancer_had ///
  > sr_crvovrnutrncancer_had sr_coloncancer_had sr_kidneycancer_had sr_othercancer
  > _had{
  2.   replace `x'=0 if inlist(`x',-1,2)
  3.   replace `x'=. if inlist(`x', -9,-8)
  4. }
  (32,498 real changes made)
  (847 real changes made, 847 to missing)
  (33,330 real changes made)
  (843 real changes made, 843 to missing)
  (33,273 real changes made)
  (843 real changes made, 843 to missing)
  (33,897 real changes made)
  (843 real changes made, 843 to missing)
  (33,822 real changes made)
  (843 real changes made, 843 to missing)
  (33,784 real changes made)
  (843 real changes made, 843 to missing)
  (33,957 real changes made)
```

```
   (843 real changes made, 843 to missing)
   (33,343 real changes made)
   (843 real changes made, 843 to missing)

377
378 label var sr_skincancer_had "Sensitive: Skin Cancer"

379 label var sr_breastcancer_had "Sensitive: Breast Cancer"

380 label var sr_prostatecancer_had "Sensitive: Prostate Cancer"

381 label var sr_bladdercancer_had "Sensitive: Bladder Cancer"

382 label var sr_crvovrnutrncancer_had "Sensitive: Cervical/Ovarian/Uterine Cancer
  > "

383 label var sr_coloncancer_had "Sensitive: Colon Cancer"

384 label var sr_kidneycancer_had "Sensitive: Kidney Cancer"

385 label var sr_othercancer_had "Sensitive: Other Cancer"

386
387 //recoding all refuse, dk, na, as missing
388 qui destring *, replace

389 foreach x of varlist * {
   2.          replace `x'=. if inlist(`x',-1,-7,-8,-9)
   3. }
  (0 real changes made)
  (0 real changes made)
  (2,969 real changes made, 2,969 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (42,177 real changes made, 42,177 to missing)
  (0 real changes made)
  (2,671 real changes made, 2,671 to missing)
  (42,182 real changes made, 42,182 to missing)
  (42,259 real changes made, 42,259 to missing)
  (42,182 real changes made, 42,182 to missing)
  (34,518 real changes made, 34,518 to missing)
  (636 real changes made, 636 to missing)
  (1 real change made, 1 to missing)
  (5,640 real changes made, 5,640 to missing)
  (12,732 real changes made, 12,732 to missing)
  (5,673 real changes made, 5,673 to missing)
  (5,699 real changes made, 5,699 to missing)
  (5,718 real changes made, 5,718 to missing)
  (5,683 real changes made, 5,683 to missing)
  (5,685 real changes made, 5,685 to missing)
  (5,772 real changes made, 5,772 to missing)
  (5,664 real changes made, 5,664 to missing)
  (5,671 real changes made, 5,671 to missing)
  (5,701 real changes made, 5,701 to missing)
  (5,675 real changes made, 5,675 to missing)
  (5,680 real changes made, 5,680 to missing)
  (30,793 real changes made, 30,793 to missing)
  (15,940 real changes made, 15,940 to missing)
  (5,656 real changes made, 5,656 to missing)
  (5,673 real changes made, 5,673 to missing)
  (5,038 real changes made, 5,038 to missing)
  (5,782 real changes made, 5,782 to missing)
  (37,711 real changes made, 37,711 to missing)
  (5,026 real changes made, 5,026 to missing)
  (15,360 real changes made, 15,360 to missing)
  (14,933 real changes made, 14,933 to missing)
  (5,027 real changes made, 5,027 to missing)
  (16,415 real changes made, 16,415 to missing)
```

```
(15,921 real changes made, 15,921 to missing)
(5,037 real changes made, 5,037 to missing)
(12,312 real changes made, 12,312 to missing)
(12,541 real changes made, 12,541 to missing)
(5,031 real changes made, 5,031 to missing)
(16,068 real changes made, 16,068 to missing)
(15,564 real changes made, 15,564 to missing)
(5,037 real changes made, 5,037 to missing)
(15,144 real changes made, 15,144 to missing)
(14,803 real changes made, 14,803 to missing)
(5,668 real changes made, 5,668 to missing)
(5,707 real changes made, 5,707 to missing)
(34,745 real changes made, 34,745 to missing)
(10,681 real changes made, 10,681 to missing)
(33,720 real changes made, 33,720 to missing)
(5,939 real changes made, 5,939 to missing)
(5,860 real changes made, 5,860 to missing)
(5,841 real changes made, 5,841 to missing)
(5,910 real changes made, 5,910 to missing)
(5,943 real changes made, 5,943 to missing)
(5,957 real changes made, 5,957 to missing)
(5,790 real changes made, 5,790 to missing)
(37,656 real changes made, 37,656 to missing)
(44,080 real changes made, 44,080 to missing)
(3,888 real changes made, 3,888 to missing)
(42,366 real changes made, 42,366 to missing)
(35,214 real changes made, 35,214 to missing)
(43,990 real changes made, 43,990 to missing)
(10,788 real changes made, 10,788 to missing)
(42,070 real changes made, 42,070 to missing)
(4,475 real changes made, 4,475 to missing)
(41,977 real changes made, 41,977 to missing)
(27,637 real changes made, 27,637 to missing)
(27,612 real changes made, 27,612 to missing)
(47,287 real changes made, 47,287 to missing)
(45,078 real changes made, 45,078 to missing)
(5,629 real changes made, 5,629 to missing)
(27,333 real changes made, 27,333 to missing)
(5,671 real changes made, 5,671 to missing)
(5,640 real changes made, 5,640 to missing)
(5,640 real changes made, 5,640 to missing)
(662 real changes made, 662 to missing)
(14,698 real changes made, 14,698 to missing)
(16,105 real changes made, 16,105 to missing)
(5,640 real changes made, 5,640 to missing)
(5,640 real changes made, 5,640 to missing)
(5,640 real changes made, 5,640 to missing)
(5,640 real changes made, 5,640 to missing)
(8,193 real changes made, 8,193 to missing)
(45,363 real changes made, 45,363 to missing)
(5,679 real changes made, 5,679 to missing)
(41,246 real changes made, 41,246 to missing)
(5,691 real changes made, 5,691 to missing)
(45,728 real changes made, 45,728 to missing)
(45,761 real changes made, 45,761 to missing)
(45,252 real changes made, 45,252 to missing)
(45,257 real changes made, 45,257 to missing)
(13,091 real changes made, 13,091 to missing)
(30,153 real changes made, 30,153 to missing)
(30,155 real changes made, 30,155 to missing)
(30,166 real changes made, 30,166 to missing)
(46,422 real changes made, 46,422 to missing)
(5,659 real changes made, 5,659 to missing)
(5,669 real changes made, 5,669 to missing)
(5,998 real changes made, 5,998 to missing)
(5,999 real changes made, 5,999 to missing)
(5,720 real changes made, 5,720 to missing)
(5,689 real changes made, 5,689 to missing)
(8,659 real changes made, 8,659 to missing)
(45,591 real changes made, 45,591 to missing)
(46,943 real changes made, 46,943 to missing)
(6,549 real changes made, 6,549 to missing)
```

```
(2,926 real changes made, 2,926 to missing)
(24,788 real changes made, 24,788 to missing)
(28,340 real changes made, 28,340 to missing)
(32,235 real changes made, 32,235 to missing)
(37,811 real changes made, 37,811 to missing)
(6,538 real changes made, 6,538 to missing)
(7,037 real changes made, 7,037 to missing)
(7,798 real changes made, 7,798 to missing)
(38,117 real changes made, 38,117 to missing)
(39,653 real changes made, 39,653 to missing)
(42,829 real changes made, 42,829 to missing)
(44,624 real changes made, 44,624 to missing)
(46,688 real changes made, 46,688 to missing)
(47,020 real changes made, 47,020 to missing)
(5,684 real changes made, 5,684 to missing)
(5,788 real changes made, 5,788 to missing)
(5,967 real changes made, 5,967 to missing)
(41,938 real changes made, 41,938 to missing)
(5,847 real changes made, 5,847 to missing)
(6,279 real changes made, 6,279 to missing)
(44,423 real changes made, 44,423 to missing)
(6,030 real changes made, 6,030 to missing)
(5,994 real changes made, 5,994 to missing)
(6,095 real changes made, 6,095 to missing)
(5,665 real changes made, 5,665 to missing)
(5,669 real changes made, 5,669 to missing)
(5,695 real changes made, 5,695 to missing)
(24,737 real changes made, 24,737 to missing)
(5,826 real changes made, 5,826 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
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(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(16,720 real changes made, 16,720 to missing)
(5,674 real changes made, 5,674 to missing)
(38,827 real changes made, 38,827 to missing)
(5,699 real changes made, 5,699 to missing)
(34,515 real changes made, 34,515 to missing)
(5,679 real changes made, 5,679 to missing)
(31,818 real changes made, 31,818 to missing)
(0 real changes made)
(27,883 real changes made, 27,883 to missing)
(5,707 real changes made, 5,707 to missing)
(32,974 real changes made, 32,974 to missing)
(6,245 real changes made, 6,245 to missing)
(29,629 real changes made, 29,629 to missing)
(6,358 real changes made, 6,358 to missing)
(32,786 real changes made, 32,786 to missing)
(5,945 real changes made, 5,945 to missing)
(32,319 real changes made, 32,319 to missing)
(6,152 real changes made, 6,152 to missing)
(21,518 real changes made, 21,518 to missing)
(6,212 real changes made, 6,212 to missing)
(37,102 real changes made, 37,102 to missing)
(5,935 real changes made, 5,935 to missing)
(34,974 real changes made, 34,974 to missing)
(42,572 real changes made, 42,572 to missing)
(47,625 real changes made, 47,625 to missing)
(45,475 real changes made, 45,475 to missing)
(45,474 real changes made, 45,474 to missing)
(45,489 real changes made, 45,489 to missing)
(45,476 real changes made, 45,476 to missing)
(45,491 real changes made, 45,491 to missing)
(45,485 real changes made, 45,485 to missing)
```

```
(45,496 real changes made, 45,496 to missing)
(45,474 real changes made, 45,474 to missing)
(44,885 real changes made, 44,885 to missing)
(44,868 real changes made, 44,868 to missing)
(44,867 real changes made, 44,867 to missing)
(44,897 real changes made, 44,897 to missing)
(44,851 real changes made, 44,851 to missing)
(46,395 real changes made, 46,395 to missing)
(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
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(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
(46,210 real changes made, 46,210 to missing)
(8,607 real changes made, 8,607 to missing)
(24,080 real changes made, 24,080 to missing)
(8,600 real changes made, 8,600 to missing)
(7,217 real changes made, 7,217 to missing)
(7,216 real changes made, 7,216 to missing)
(7,217 real changes made, 7,217 to missing)
(7,215 real changes made, 7,215 to missing)
(7,209 real changes made, 7,209 to missing)
(7,810 real changes made, 7,810 to missing)
(5,655 real changes made, 5,655 to missing)
(8,303 real changes made, 8,303 to missing)
(9,854 real changes made, 9,854 to missing)
(12,239 real changes made, 12,239 to missing)
(17,295 real changes made, 17,295 to missing)
(25,333 real changes made, 25,333 to missing)
(34,713 real changes made, 34,713 to missing)
(42,074 real changes made, 42,074 to missing)
(45,953 real changes made, 45,953 to missing)
(47,380 real changes made, 47,380 to missing)
(21,106 real changes made, 21,106 to missing)
(6,186 real changes made, 6,186 to missing)
(39,062 real changes made, 39,062 to missing)
(39,235 real changes made, 39,235 to missing)
(8,963 real changes made, 8,963 to missing)
(41,789 real changes made, 41,789 to missing)
(7,810 real changes made, 7,810 to missing)
(7,810 real changes made, 7,810 to missing)
(7,810 real changes made, 7,810 to missing)
(7,810 real changes made, 7,810 to missing)
(6,689 real changes made, 6,689 to missing)
(6,688 real changes made, 6,688 to missing)
(7,810 real changes made, 7,810 to missing)
(7,834 real changes made, 7,834 to missing)
(7,834 real changes made, 7,834 to missing)
(7,834 real changes made, 7,834 to missing)
(7,834 real changes made, 7,834 to missing)
(7,837 real changes made, 7,837 to missing)
(7,837 real changes made, 7,837 to missing)
(7,837 real changes made, 7,837 to missing)
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390
391
392 //how do you get to the doctor?
393 gen howgetdoc=.
   (47,778 missing values generated)
```

```
394 forvalues i=1/9 {
    2. replace howgetdoc=`i' if hwgtregd`i'==1
    3. }
  (24,378 real changes made)
  (13,393 real changes made)
  (550 real changes made)
  (1,187 real changes made)
  (909 real changes made)
  (412 real changes made)
  (598 real changes made)
  (773 real changes made)
  (300 real changes made)

395
396 label define howgetdoc 1 "Drove" 2 "Got a Ride" 3 "Van/Shuttle from place live
  > s" ///
  > 4 "Van/Shuttle for seniors & disabled" 5 "Pulic transit" 6 "Taxi" 7 "Walked" /
  > //
  > 8 "Home visit" 9 "Other" 0 "Did not See Doctor" 10 "Refused/DK"

397 label values howgetdoc howgetdoc

398
399
400 //note 11/14/17--add importance of activities
401 gen ind_imp_visit=.
  (47,778 missing values generated)

402 gen ind_imp_relig=.
  (47,778 missing values generated)

403 gen ind_imp_club=.
  (47,778 missing values generated)

404 gen ind_imp_goout=.
  (47,778 missing values generated)

405
406 replace ind_imp_visit=inlist(impvstfam,1,2)
  (47,778 real changes made)

407 replace ind_imp_relig=inlist(imprelser,1,2)
  (47,778 real changes made)

408 replace ind_imp_club=inlist(imparclub,1,2)
  (47,778 real changes made)

409 replace ind_imp_goout=inlist(impouteny,1,2)
  (47,778 real changes made)

410
411 label var ind_imp_visit "Very/somewhat important to visit in person with frien
  > ds/family"

412 label var ind_imp_relig "Very/somewhat important to attend religious services"

413 label var ind_imp_club "Very/somewhat important to participate in clubs, class
  > es, etc."

414 label var ind_imp_goout "Very/somewhat important to go out for enjoyment"
```

```
415
416 foreach x in out insd bed {
    2.          gen device_`x'=.
    3.          label var device_`x' "Uses any assistive device for mobility `x'"
    4. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)

417 label var device_out "Uses any assistive device for mobility outside"

418 label var device_ins "Uses any assistive device for mobility inside"

419 label var device_bed "Uses any assistive device to get out of bed"

420
421 foreach x in eat bath toil dres {
    2.          gen device_`x'=.
    3.          label var device_`x' "Uses assistive device for `x'ing"
    4. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)

422
423
424 foreach x in out insd bed {
    2.          replace device_`x'=d`x'devi==2 if inlist(d`x'devi,1,2)
    3. }
  (41,262 real changes made)
  (41,867 real changes made)
  (42,072 real changes made)

425
426 foreach x in eat bath toil dres {
    2.          replace device_`x'=d`x'devi==2 if inlist(d`x'devi,1,2)
    3. }
  (44,491 real changes made)
  (26,812 real changes made)
  (44,371 real changes made)
  (44,213 real changes made)

427 replace device_bath=0 if dbathdevi==9
  (17,217 real changes made)

428
429
430 gen device_any=0

431 foreach x in out ins bed eat bath toil dres {
    2.          replace device_any=1 if device_`x'==1
    3. }
  (12,341 real changes made)
  (1,015 real changes made)
  (59 real changes made)
  (264 real changes made)
  (10,992 real changes made)
  (6,735 real changes made)
  (126 real changes made)
```

```
432 label var device_any "Uses any assistive device for ADLs"

433
434 rename drives dtdrives //a drive flag exists in nhats

435 //making our own drive variable
436 gen drives=.
  (47,778 missing values generated)

437 replace drives=oftedrive>0 & oftedrive<5
  (47,778 real changes made)

438
439 label var drives "Drives"

440
441 gen avoids=.
  (47,778 missing values generated)

442 replace avoids=0 if oftedrive>0 & oftedrive!=5 & avoidriv1==2 & avoidriv2==2 &
  >  avoidriv4==2
  (16,750 real changes made)

443
444 local avoids avoidriv1 avoidriv2 avoidriv4

445
446 foreach x of varlist `avoids' {
    2.         replace avoids=1 if `x'==1
    3.         replace `x'=. if `x'<0
    4. }
  (9,749 real changes made)
  (0 real changes made)
  (299 real changes made)
  (0 real changes made)
  (1,192 real changes made)
  (0 real changes made)

447
448 label var avoids "Avoids driving alone/at night/in weather*"

449
450 gen miss=0

451 gen ind_transp_disadv=.
  (47,778 missing values generated)

452
453
454 replace ind_transp_disadv=0 if oftedrive==. | inlist(oftedrive,5,6)
  (19,187 real changes made)

455 local probs trkpfrvis trprrelsr trprkpfgr trprgoout

456 foreach x in `probs' {
    2. replace ind_transp_disadv=1 if `x'==1
    3. gen `x'2=`x'==1 if `x'>=0 & !missing(`x')
    4. replace `x'=`x'2
    5. drop `x'2
    6. replace miss=miss+1 if missing(`x')
    7. }
  (1,848 real changes made)
  (34,281 missing values generated)
  (11,649 real changes made)
  (34,281 real changes made)
  (1,005 real changes made)
  (34,296 missing values generated)
  (11,630 real changes made)
  (34,296 real changes made)
  (350 real changes made)
  (34,277 missing values generated)
  (11,960 real changes made)
```

```
  (34,277 real changes made)
  (264 real changes made)
  (34,275 missing values generated)
  (11,880 real changes made)
  (34,275 real changes made)

457
458 replace ind_transp_disadv=0 if !miss & missing(ind_transp_disadv)
  (0 real changes made)

459 replace ind_transp_disadv=. if miss==4
  (5,653 real changes made, 5,653 to missing)

460 label var ind_transp_disadv "Any transportation disadvantage"

461 drop miss

462
463 local lab1 Walked

464 local lab2 Got ride

465 local lab3 Van or shuttle provided by place of residence

466 local lab4 Van or shuttle for seniors

467 local lab5 Public transportation

468 local lab6 Taxi

469 local lab7 Other

470 local l=1

471
472 forvalues i=1/7 {
  2. gen get_places`i'=.
  3. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)

473
474 replace getoplcs3=0 if !missing(getoplcs7) & missing(getoplcs3)
  (35,030 real changes made)

475 forvalues x=1/7  {
  2.          replace get_places`x'=getoplcs`x'==1
  3.          replace get_places`x'=. if (inlist(getoplcs7,-1,.) | getoplcs`x'==.
 > )
  4.          label var get_places`x' "Get places: `lab`x''"
  5.          local l=`l'+1
  6. }
  (47,778 real changes made)
  (6,030 real changes made, 6,030 to missing)
  (47,778 real changes made)
  (6,040 real changes made, 6,040 to missing)
  (47,778 real changes made)
  (6,013 real changes made, 6,013 to missing)
  (47,778 real changes made)
  (6,030 real changes made, 6,030 to missing)
  (47,778 real changes made)
  (6,019 real changes made, 6,019 to missing)
  (47,778 real changes made)
  (6,019 real changes made, 6,019 to missing)
  (47,778 real changes made)
  (6,013 real changes made, 6,013 to missing)
```

```
476
477 //marital status-3 vars: married, married_or_partnered
478
479 gen married=maritalstat==1 if maritalstat!=. //married
    (5,661 missing values generated)

480 gen marital_sep=maritalstat==3 if !mi(maritalstat)
    (5,661 missing values generated)

481 gen marital_div=maritalstat==4 if !mi(maritalstat)
    (5,661 missing values generated)

482 gen marital_wid=maritalstat==5 if !mi(maritalstat)
    (5,661 missing values generated)

483 gen marital_nev=maritalstat==6 if !mi(maritalstat)
    (5,661 missing values generated)

484 gen marriedpartnered=married
    (5,661 missing values generated)

485 replace marriedpartnered=1 if maritalstat==2 //living with a partner
    (822 real changes made)

486 gen marital_sd=marital_sep
    (5,661 missing values generated)

487 replace marital_sd=1 if marital_div==1
    (4,699 real changes made)

488
489 label var married "Married"

490 label var marriedpartnered "Married or Live w/ Partner"

491 label var marital_sep "Separated"

492 label var marital_div "Divorced"

493 label var marital_wid "Widowed"

494 label var marital_nev "Never married"

495 notes married : hh1martlstat

496 notes married : "_"

497 notes married : E:\nhats\nhats_code\NHATS data setup\NHATS_Setup, step-3 heade
  > r for intermediate var and step-7 for final

498
499 //lives with spouse
500 gen resspouse=.
    (47,778 missing values generated)

501 replace resspouse=livwthspo==1 if livwthspo>0
    (47,778 real changes made)

502 replace resspouse=0 if marriedpart==0
    (0 real changes made)
```

```
503
504 label var resspouse "Lives with Spouse/Partner"

505
506 //household members
507 gen hhm=.
   (47,778 missing values generated)

508 replace hhm=dhshldnum if dhshldnum>0
   (42,135 real changes made)

509
510 label var hhm "Number of household members"

511
512 //age categorical
513
514 sort spid wave

515 by spid: replace age=age[_n-1]+1 if missing(age)
   (2172 real changes made)

516 label var age "Sensitive: age"

517
518 gen agecat = .
   (47,778 missing values generated)

519 replace agecat= d2intvrage
   (45,107 real changes made)

520
521 replace agecat=. if agecat==-1
   (0 real changes made)

522 label values agecat d2intvrage

523 label var agecat "Age, 5 yr categories"

524
525 //activities past month
526
527 gen attrelig=. //attend services
   (47,778 missing values generated)

528 gen imprelig=. //importance of religious services
   (47,778 missing values generated)

529 gen visitfrfam=. //visit fr. fam.
   (47,778 missing values generated)

530 gen impvisit=. //importance of visiting friends & fam
   (47,778 missing values generated)

531 gen attclub=. //participate in club, organized activity, class, etc.
   (47,778 missing values generated)

532 gen impclub=. //importance of such activities
   (47,778 missing values generated)
```

```
533 gen vigact=vigoractv //vigorous activities
   (5,684 missing values generated)

534
535
536 replace attrelig=attrelser==1 if attrelser>0
   (47,778 real changes made)

537 replace imprelig=imprelser if imprelser>0
   (41,951 real changes made)

538 replace visitfrfam=vistfrfam==1 if vistfrfam>0
   (47,778 real changes made)

539 replace impvisit=impvstfam if impvstfam>0
   (41,966 real changes made)

540 replace attclub=clbmtgrac==1 if clbmtgrac>0
   (47,778 real changes made)

541 replace impclub=imparclub if imparclub>0
   (41,995 real changes made)

542 //replace vigact=vigoractv==1 if vigoractv>0
543
544
545 gen religvimp=imprelig==1 if imprelig!=. //very important binary
   (5,827 missing values generated)

546
547 label var attrelig "Past mo. Attend religious services"

548 label var imprelig "Importance of religious services"

549 label var religvimp "Religious services very important, yes/no"

550 label var visitfrfam "Past mo. visit friends or family"

551 label var impvisit "Importance of visiting friends/family"

552 label var attclub "Past mo. participate in clubs/classes/organized activities"

553 label var impclub "Importance of club/class/etc. participation"

554 label var vigact "Past mo. engage in vigorous activity"

555
556 label values imprelig pa1imprelser

557 label values impvisit pa1impvstfam

558 label values impclub pa1imparclub

559
560 //smokin'
561 gen smokedever=.
   (47,778 missing values generated)

562 gen smoke_start_age=.
   (47,778 missing values generated)
```

```
563 gen smoke_stop_age=.
   (47,778 missing values generated)

564
565 forvalues i=1(4)5 {
   2.          replace smokedever=smokedreg==1 if wave==`i' & smokedreg>0
   3.          replace smoke_start_age=agesrtsmk if wave==`i' & agesrtsmk>0
   4.          replace smoke_stop_age=agelstsmk if wave==`i' & agelstsmk>0
   5. }
 (8,245 real changes made)
 (3,741 real changes made)
 (3,183 real changes made)
 (8,334 real changes made)
 (1,886 real changes made)
 (1,591 real changes made)

566
567 sort spid wave

568 by spid: carryforward smokedever smoke_start_age smoke_stop_age, replace
   smokedever:  (31199 real changes made)
   smoke_start_age:  (16124 real changes made)
   smoke_stop_age:  (13794 real changes made)

569 notes drop smokedever smoke_start_age smoke_stop_age
    (3 notes dropped)

570 rename smokesnow smokesnow_old

571 gen smokesnow=.
   (47,778 missing values generated)

572 //Numcigever asked differently in rounds 1,5 then in other rounds. (Do you/ Di
  > d you)
573 //Wanted to see the num. of cigs. smoked by non-smokers.
574 by spid, sort: egen numcigsever=max(numcigday) if inlist(wave,1,5) & smokesnow
  > _old==2
   (41599 missing values generated)

575 by spid: carryforward numcigsever if smokesnow_old==2, replace
   numcigsever:  (10823 real changes made)

576 gen numcigsnow=.
   (47,778 missing values generated)

577
578 replace smokesnow=smokesnow_old==1 if smokesnow_old>0
   (47,778 real changes made)

579 replace numcigsnow=numcigday if smokesnow==1
   (2,786 real changes made)

580
581 replace smokedever=1 if smokesnow==1
   (512 real changes made)

582 replace smokesnow=0 if smokedever==0
   (0 real changes made)

583 replace numcigsnow=0 if smokesnow==0
   (44,965 real changes made)
```

```
584
585 label var smokedever "Ever smoked"

586 label var smokesnow "Smokes now"

587 label var numcigsever "Max number of cigarettes/day when smoked for current no
  > n-smokers"

588 label var numcigsnow "Number of cigarettes/day currently"

589 label var smoke_start_age "Age started smoking"

590 label var smoke_stop_age "Age stopped smoking"

591
592 //pain
593 gen ind_pain=.
  (47,778 missing values generated)

594 replace ind_pain=painb==1 if inrange(painb,0,2)
  (42,083 real changes made)

595 label var ind_pain "Bothered by pain"

596
597 //weight
598
599 gen wgt_curr=.
  (47,778 missing values generated)

600 gen height_ft=.
  (47,778 missing values generated)

601 gen height_in=.
  (47,778 missing values generated)

602
603 replace wgt_curr=currweigh if currweigh>0
  (41,141 real changes made)

604 replace height_ft=howtallft if howtallft>0
  (41,490 real changes made)

605 replace height_in=howtallin if howtallin>0
  (37,373 real changes made)

606
607 label var wgt_curr "Current weight, lbs."

608 label var height_ft "Current height, feet"

609 label var height_in "Current height, inches"

610
611 gen bmi=(wgt_curr/((height_ft*12+height_in)^2))*703
  (11,007 missing values generated)

612
613 label var bmi "Current BMI"
```

```
614
615 //get the per round weight, cluster, and strata vars (and why is moved created
  >  like that?)
616 //gen moved=.
617 rename varunit varunit
    (all newnames==oldnames)

618 rename varstrat varstrat
    (all newnames==oldnames)

619 rename anfinwgt0 anfinwgt

620
621 /*
  > forvalues i=2/7 {
  >         replace moved=w`i'_moved if wave==`i'
  >         foreach x in anfinwgt varstrat varunit {
  >                 replace `x'=w`i'`x' if wave==`i'
  > }
  > drop w`i'_moved w`i'anfinwgt0 w`i'varstrat w`i'varunit
  > }
  > */
622 label var moved "Moved since last ivw"

623
624 *****************************************
625 /*these are taken from Rebecca's code*/
626
627 gen community_dwelling = 0

628 gen SP_completed = 0

629 forvalues w=1/$w {
    2. replace community_dwelling=1 if inlist(dresid,1,2) & wave==`w'
    3. replace SP_completed=1 if (inlist(dresid,1,2) & wave==1) | (inlist(dresid,1
  > ,2,4) & wave==`w')
    4. }
  (7,609 real changes made)
  (8,077 real changes made)
  (5,992 real changes made)
  (6,056 real changes made)
  (4,803 real changes made)
  (4,884 real changes made)
  (3,941 real changes made)
  (4,037 real changes made)
  (7,499 real changes made)
  (7,576 real changes made)
  (6,309 real changes made)
  (6,410 real changes made)
  (5,454 real changes made)
  (5,566 real changes made)

630
631 gen nhres=dresid==4 if dresid!=. & wave==1
  (39,533 missing values generated)

632 gen rcfres=inlist(dresid,2,3) if dresid!=. & wave==1
  (39,533 missing values generated)

633 gen res_care=dresid>1 if dresid!=. & wave==1
  (39,533 missing values generated)
```

```
634 gen sp_status=1

635 gen deceased=0

636 gen prob_dem=dem_3_cat==1 if !missing(dem_3_cat)
   (5,660 missing values generated)

637 label var prob_dem "Indicator probable dementia"

638
639 forvalues w=2/7 {
    2. replace nhres=inlist(dresid,4,5,8) if wave==`w'
    3. replace res_care=inlist(dresid,2,3,4,5,7,8) if wave==`w'
    4. replace rcfres=inlist(dresid,2,3,7) if wave==`w'
    5. replace deceased=inlist(r`w'status,62,86) if wave>=`w'
    6. }
  (7,075 real changes made)
  (7,075 real changes made)
  (7,075 real changes made)
  (503 real changes made)
  (5,799 real changes made)
  (5,799 real changes made)
  (5,799 real changes made)
  (523 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (4,737 real changes made)
  (404 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (8,334 real changes made)
  (296 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (7,276 real changes made)
  (486 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (6,312 real changes made)
  (459 real changes made)

640
641 note nhres : r*dresid

642 notes nhres : Resid=4,5,8

643 notes nhres : E:\nhats\nhats\code\NHATS data setup\NHATS_Setup, step-7 header

644
645
646 replace sp_status=2 if res_care==1
   (5,953 real changes made)

647 replace sp_status=3 if nhres==1
   (2,532 real changes made)

648 replace sp_status=4 if deceased==1
   (2,671 real changes made)

649 label var sp_status "Residential status"
```

```
650 label var nhres "Nursing Home Resident"

651 label var rcfres "Residential Care, excl. NH"

652 label var res_care "Residential Care, incl. NH"

653 label define sp_status 1 "Non-res care community" 2 "Res-care not NH" 3 "NH re
  > sident" ///
  > 4 "Deceased"

654 label values sp_status sp_status

655
656 //these ADL variables were missing previously
657 gen adl_ins_help = .
  (47,778 missing values generated)

658 gen adl_ins_diff=.
  (47,778 missing values generated)

659 gen adl_ins_not_done=.
  (47,778 missing values generated)

660
661 replace adl_ins_help=1 if insdhlp==1
  (5,334 real changes made)

662 replace adl_ins_help=0 if insdhlp==2
  (38,745 real changes made)

663 replace adl_ins_help=0 if insdhlp==-1 & sp_ivw==1
  (0 real changes made)

664 replace adl_ins_help=-7 if insdhlp==-7
  (0 real changes made)

665 replace adl_ins_help=-8 if insdhlp==-8
  (0 real changes made)

666 replace adl_ins_diff=0 if insddif==1
  (33,656 real changes made)

667 replace adl_ins_diff=1 if insddif>1
  (14,122 real changes made)

668 replace adl_ins_diff=0 if insddif==-1 & sp_ivw==1
  (0 real changes made)

669 replace adl_ins_diff=-7 if insddif==-7
  (0 real changes made)

670 replace adl_ins_diff=-8 if insddif==-8
  (0 real changes made)

671 replace adl_ins_not_done=inlist(dinsdsfdf,1,8)
  (47,778 real changes made)

672
673
674 *replace adl_ins_dif=1 if adl_ins_help==1
```

```
675 label var adl_ins_help "Received help getting around inside"

676 notes adl_ins_help : mo*insdhlp

677 notes adl_ins_help : "_"

678 notes adl_ins_help : E:\nhats\nhats\code\NHATS data setup\NHATS_Setup, step-7
  > header

679
680
681 gen adl_bed_help = .
  (47,778 missing values generated)

682 gen adl_bed_diff=.
  (47,778 missing values generated)

683 gen adl_bed_not_done=.
  (47,778 missing values generated)

684
685 replace adl_bed_help=1 if bedhlp==1
  (4,585 real changes made)

686 replace adl_bed_help=0 if bedhlp==2
  (39,793 real changes made)

687 replace adl_bed_help=0 if bedhlp==-1 & sp_ivw==1
  (0 real changes made)

688 replace adl_bed_help=-7 if bedhlp==-7
  (0 real changes made)

689 replace adl_bed_help=-8 if bedhlp==-8
  (0 real changes made)

690 replace adl_bed_diff=0 if beddif==1
  (32,871 real changes made)

691 replace adl_bed_diff=1 if beddif>1
  (14,907 real changes made)

692 replace adl_bed_diff=0 if beddif==-1 & sp_ivw==1
  (0 real changes made)

693 replace adl_bed_diff=-7 if beddif==-7
  (0 real changes made)

694 replace adl_bed_diff=-8 if beddif==-8
  (0 real changes made)

695 replace adl_bed_not_done=inlist(dbedsfdf,1,8)
  (47,778 real changes made)

696
697 label var adl_bed_help "Received help getting out of bed"

698 *replace adl_bed_diff=1 if adl_bed_help==1
699 notes adl_bed_help : mo*bedhlp
```

```
700 notes adl_bed_help : "_"

701 notes adl_bed_help : E:\nhats\nhats\code\NHATS data setup\NHATS_Setup, step-7
  > header

702
703
704 //construct date of ivw--use 1st of month for all, because only have mo & yr
705
706 merge 1:1 spid wave using `resttrack', keep(match) nogen

        Result                          # of obs.
        -----------------------------------------
        not matched                             0
        matched                            47,778
        -----------------------------------------

707 gen ivw_day=spstatdtdy

708 label define ivw_day 1 "Not provided"

709 label values ivw_day ivw_day

710 gen ivw_month=.
  (47,778 missing values generated)

711 gen ivw_year=.
  (47,778 missing values generated)

712 forvalues w=1/$w {
    2.          replace ivw_month=r`w'spstatdtmt if wave==`w'
    3.          replace ivw_month=r`w'fqstatdtmt if wave==`w' & r`w'spstatdtmt==.
    4.          replace ivw_year=r`w'spstatdtyr if wave==`w'
    5.          replace ivw_year=201`w' if wave==`w' & r`w'spstatdtyr==.
    6. }
  (7,609 real changes made)
  (636 real changes made)
  (7,609 real changes made)
  (636 real changes made)
  (6,559 real changes made)
  (516 real changes made)
  (6,559 real changes made)
  (516 real changes made)
  (5,407 real changes made)
  (392 real changes made)
  (5,407 real changes made)
  (392 real changes made)
  (4,441 real changes made)
  (296 real changes made)
  (4,441 real changes made)
  (296 real changes made)
  (7,872 real changes made)
  (462 real changes made)
  (7,872 real changes made)
  (462 real changes made)
  (6,896 real changes made)
  (380 real changes made)
  (6,896 real changes made)
  (380 real changes made)
  (6,025 real changes made)
  (287 real changes made)
  (6,025 real changes made)
  (287 real changes made)
```

```
713
714 replace ivw_month=r1fqstatdtmt if wave==1 & ivw_month==.
   (0 real changes made)

715 replace ivw_year=r1fqstatdty if wave==1 & ivw_year==.
   (0 real changes made)

716
717
718 gen ivw_date=mdy(ivw_month,ivw_day,ivw_year)
   (2,971 missing values generated)

719 format ivw_date %td

720 label var ivw_date "Interview date from restricted tracker"

721
722 gen ivw_date_sens=mdy(ivw_month,1,ivw_year)

723 format ivw_date_sens %td

724 label var ivw_date "Interview date, day of month set to one"

725
726 /// Changes to Dressing and Eating
  > /*These changes were made because the help variables were not capturing everyo
  > ne
  > who may have been impaired for the ADL*/
727 //changes made 5/20/18
728
729         replace adl_dres_help=1 if dresoft==5
   (418 real changes made)

730         replace adl_eat_help=1 if eatdev==7
   (153 real changes made)

731         replace adl_ins_help=1 if ntlvrmslp==1
   (353 real changes made)

732
733
734 gen adl_index=0

735 foreach i in eat bath toil dres bed ins {
    2. replace adl_index=adl_index+adl_`i'_help if adl_`i'_help>0
    3. }
  (7,395 real changes made, 3,067 to missing)
  (7,116 real changes made, 30 to missing)
  (3,590 real changes made, 110 to missing)
  (8,078 real changes made, 21 to missing)
  (4,823 real changes made, 365 to missing)
  (5,526 real changes made, 21 to missing)

736 *gen adl_index=adl_eat_help+adl_bath_help+adl_toil_help+adl_dres_help+adl_ins_
  > help+adl_bed_help
737 replace adl_index=. if adl_index<0
   (0 real changes made)

738 gen adl_independent=adl_index==0 if adl_index!=.
   (3,614 missing values generated)
```

```
739 gen adl_impair=adl_index>0 if adl_index!=.
   (3,614 missing values generated)

740 gen iadl_index=iadl_laun_help+iadl_shop_help+iadl_bank_help+iadl_meal_help+iad
  > l_meds_help
   (5,848 missing values generated)

741 replace iadl_index=. if iadl_index<0
   (0 real changes made)

742 gen iadl_independent=iadl_index==0 if iadl_index!=.
   (5,848 missing values generated)

743 gen iadl_impair=iadl_index>0 if iadl_index!=.
   (5,848 missing values generated)

744 foreach x in adl iadl {
    2.          egen `x'_diff_index=rowtotal(`x'*diff)
    3.          gen `x'_diff_ind=`x'_diff_index>=1 if !missing(`x'_diff_index)
    4. }

745 label var adl_independent "Independent in ADLs"

746 label var adl_impair "Help with 1+ ADL"

747 label var adl_index "Index of help w/ ADLs"

748
749 foreach x in independent impair index {
    2.          notes adl_`x' : sc*eathlp sc*bathhlp sc*toilhlp sc*dreshlp
    3.          notes adl_`x' : " "
    4.          notes adl_`x' : E:\nhats\nhats\code\NHATS data setup\NHATS_Setup, s
  > tep-7 header
    5. }

750
751
752 label var iadl_independent "Independent in IADLs"

753 label var iadl_impair "Help with 1+ IADL"

754 label var iadl_index "Index of help w/ IADLs"

755
756 //addition of variables from Eric's homebound code
757 gen meals_wheels=.
   (47,778 missing values generated)

758 gen noone_talk=.
   (47,778 missing values generated)

759 gen restrnt_takeout=.
   (47,778 missing values generated)

760
761
762 replace meals_wheels=dmealwhl
   (601 real changes made)

763 replace noone_talk=noonetalk
   (2,415 real changes made)
```

```
764 replace restrnt_takeout=dmealtkot
   (3,619 real changes made)

765 foreach x in meals_wheels noone_talk restrnt_takeout {
   2. replace `x'=0 if `x'==.
   3. }
  (47,177 real changes made)
  (45,363 real changes made)
  (44,159 real changes made)

766
767
768 label var meals_wheels "Meals on wheels"

769 label var noone_talk "SP has no one to talk to"

770 label var restrnt_takeout "Received help with restaurant/takeout"

771 //pull in date of death, constructed from claims and nhats
772 merge m:1 spid using "E:\nhats\data\20180625 NHATS CMS Data\death_date.dta", n
  > ogen

      Result                           # of obs.
      -----------------------------------------
      not matched                             0
      matched                            47,778
      -----------------------------------------

773
774 gen died_12=mofd(death_date)-mofd(ivw_date)<=12

775 gen died_24=mofd(death_date)-mofd(ivw_date)<=24

776 //note-the following has been superseded by the death date using claims
777 /*
  >
  > //use status to get death
  > gen died_12=.
  > gen died_24=.
  > forvalues i=1/3 {
  > replace died_12=inlist(r`=`i'+1'status,62,86) if wave==`i' & r`=`i'+1'status!=
  > 79
  > }
  > forvalues i=1/2 {
  > replace died_24=inlist(r`=`i'+2'status,62,86) if wave==`i' & !inlist(r`=`i'+2'
  > status,79,.)
  > }
  > replace died_24=1 if died_12==1
  >
  > foreach i in 12 24 {
  > label var died_`i' "SP died w/in `i' months, per future wave status"
  > }*/
778
779 //update 8/2/17--pulled in nhats dod to share off server
780
781 //look at death month & year. don't have, so set date to last of month
782 gen dd=.
   (47,778 missing values generated)

783 replace pd2yrdied=pd2yrdied+2010 if pd2yrdied>0
   (998 real changes made)
```

```
784 gen nhats_death_day=.
   (47,778 missing values generated)

785 forvalues w=2/$w {
   2.          foreach j in mth yr {
   3.                  replace pd`w'`j'died=. if pd`w'`j'<0
   4. }
   5.          replace nhats_death_day=31 if inlist(pd`w'm,1,3,5,7,8,10,12)
   6.          replace nhats_death_day=30 if inlist(pd`w'm,4,6,9,11)
   7.          replace nhats_death_day=28 if inlist(pd`w'm,2)
   8.          replace dd=mdy(pd`w'mthdied,nhats_death_day,pd`w'yrdied) if pd`w'yr
 > died>0 & pd`w'yrdied!=.
   9. }
   (0 real changes made)
   (0 real changes made)
   (532 real changes made)
   (348 real changes made)
   (94 real changes made)
   (974 real changes made)
   (0 real changes made)
   (0 real changes made)
   (888 real changes made)
   (486 real changes made)
   (129 real changes made)
   (1,503 real changes made)
   (0 real changes made)
   (0 real changes made)
   (1,020 real changes made)
   (484 real changes made)
   (84 real changes made)
   (1,580 real changes made)
   (0 real changes made)
   (0 real changes made)
   (880 real changes made)
   (430 real changes made)
   (140 real changes made)
   (1,450 real changes made)
   (0 real changes made)
   (0 real changes made)
   (1,204 real changes made)
   (670 real changes made)
   (156 real changes made)
   (2,024 real changes made)
   (0 real changes made)
   (0 real changes made)
   (1,498 real changes made)
   (677 real changes made)
   (238 real changes made)
   (2,399 real changes made)

786
787 by spid, sort: egen nhats_death_date=max(dd)
   (37848 missing values generated)

788 label var nhats_death_date "Sensitive: SP death date, from NHATS (day imputed)
   > "

789 format nhats_death_date %td

790 gen nhats_death_month=month(nhats_death_date)
   (37,848 missing values generated)
```

```
791 gen nhats_death_year=year(nhats_death_date)
   (37,848 missing values generated)

792 foreach x in month year {
    2. label var nhats_death_`x' "Sensitive: SP death `x', from NHATS"
    3. }

793
794 drop dd

795
796
797 gen eligible_nsoc=fl1dnsoc==1

798 gen completed_nsoc=fl1dnsoccomp>0 if fl1dnsoccomp!=.
   (37,686 missing values generated)

799 gen total_caregiver_comp=fl1dnsoccomp if fl1dnsoccomp>0 & fl1dnsoccomp!=.
   (41,834 missing values generated)

800 gen total_caregiver_elig=fl1dnsoccnt if fl1dnsoccnt>0 & fl1dnsoccnt!=.
   (37,686 missing values generated)

801 label var eligible  "Sensitive: Eligible for NSOC interview, wave 1 tracker"

802 label var complete  "Sensitive: Completed Interview"

803 label var total_caregiver_comp "Sensitive: Total Caregivers that Completed Int
  > ertatus

804
805 //adverse consequences of unmet need
806
807 gen adverse=0

808 forvalues w=1/$w {
    2.          foreach x of varlist launwout shopwout mealwout bankwout eatwout ba
  > thwout toilwout dreswout {
    3.                  replace adverse=1 if `x'==1 & wave==`w'
    4. }
    5. }
   (71 real changes made)
   (94 real changes made)
   (105 real changes made)
   (45 real changes made)
   (8 real changes made)
   (124 real changes made)
   (267 real changes made)
   (40 real changes made)
   (57 real changes made)
   (78 real changes made)
   (91 real changes made)
   (35 real changes made)
   (9 real changes made)
   (74 real changes made)
   (228 real changes made)
   (36 real changes made)
   (35 real changes made)
   (71 real changes made)
   (62 real changes made)
   (21 real changes made)
   (2 real changes made)
   (76 real changes made)
   (205 real changes made)
   (17 real changes made)
   (20 real changes made)
   (56 real changes made)
   (60 real changes made)
   (29 real changes made)
   (7 real changes made)
   (63 real changes made)
   (192 real changes made)
```

```
 (16 real changes made)
 (49 real changes made)
 (110 real changes made)
 (129 real changes made)
 (54 real changes made)
 (21 real changes made)
 (112 real changes made)
 (264 real changes made)
 (33 real changes made)
 (41 real changes made)
 (102 real changes made)
 (99 real changes made)
 (42 real changes made)
 (9 real changes made)
 (114 real changes made)
 (280 real changes made)
 (30 real changes made)
 (40 real changes made)
 (70 real changes made)
 (90 real changes made)
 (38 real changes made)
 (9 real changes made)
 (92 real changes made)
 (220 real changes made)
 (30 real changes made)

809 label var adverse "Any adverse consequence of unmet need (excluding mobility)

810
811 local ha laun shop meal bank

812 local sc eat bath toil dres

813 local mo out insd bed

814
815 forvalues w=1/7{
    2.          foreach x in `ha'{
    3.                  capture gen adverse_`x'=0
    4.                  replace adverse_`x'=1 if `x'wout==1 & wave==`w'
    5.
816         }
    6. }
  (71 real changes made)
  (116 real changes made)
  (153 real changes made)
  (76 real changes made)
  (57 real changes made)
  (95 real changes made)
  (129 real changes made)
  (59 real changes made)
  (35 real changes made)
  (84 real changes made)
  (95 real changes made)
  (36 real changes made)
  (20 real changes made)
  (63 real changes made)
  (80 real changes made)
  (42 real changes made)
  (49 real changes made)
  (127 real changes made)
  (176 real changes made)
  (93 real changes made)
  (41 real changes made)
  (112 real changes made)
  (133 real changes made)
  (65 real changes made)
  (40 real changes made)
  (84 real changes made)
  (122 real changes made)
  (52 real changes made)
```

```
817
818 forvalues w=1/$w{
    2.          foreach x in `sc'{
    3.                  capture gen adverse_`x'=0
    4.                  replace adverse_`x'=1 if `x'wout==1 & wave==`w'
    5.          }
    6. }
  (21 real changes made)
  (176 real changes made)
  (369 real changes made)
  (122 real changes made)
  (19 real changes made)
  (109 real changes made)
  (298 real changes made)
  (94 real changes made)
  (6 real changes made)
  (104 real changes made)
  (273 real changes made)
  (59 real changes made)
  (7 real changes made)
  (94 real changes made)
  (241 real changes made)
  (63 real changes made)
  (34 real changes made)
  (163 real changes made)
  (383 real changes made)
  (126 real changes made)
  (17 real changes made)
  (160 real changes made)
  (360 real changes made)
  (111 real changes made)
  (14 real changes made)
  (128 real changes made)
  (290 real changes made)
  (97 real changes made)

819
820 forvalues w=1/$w {
    2.          foreach x in `mo'{
    3.                  capture gen adverse_`x'=0
    4.                  replace adverse_`x'=1 if `x'wout==1 & wave==`w'
    5.          }
    6. }
  (507 real changes made)
  (464 real changes made)
  (205 real changes made)
  (342 real changes made)
  (375 real changes made)
  (142 real changes made)
  (285 real changes made)
  (301 real changes made)
  (139 real changes made)
  (247 real changes made)
  (232 real changes made)
  (88 real changes made)
  (468 real changes made)
  (430 real changes made)
  (165 real changes made)
  (417 real changes made)
  (366 real changes made)
  (161 real changes made)
  (371 real changes made)
  (329 real changes made)
  (137 real changes made)
```

```
821
822 label var adverse_laun "Ever go w/o clean laundry"

823 label var adverse_shop "Ever go w/o groceries/personal items"

824 label var adverse_meal "Ever go w/o hot meal"

825 label var adverse_bank "Ever go w/o handling bills and banking matters"

826 label var adverse_eat "Ever go w/o eating"

827 label var adverse_bath "Ever go w/o showering/bath/washup"

828 label var adverse_toil "Ever go w/o using toilet"

829 label var adverse_dres "Ever go w/o getting dressed"

830 label var adverse_out "Ever go w/o going outside; stayed inside"

831 label var adverse_insd "Ever go w/o moving inside b/c unmet need"

832 label var adverse_bed "Ever go w/o leaving bed"

833
834 //limited favorite activity
835 capture drop lim_fav

836 gen lim_fav=.
  (47,778 missing values generated)

837
838 forvalues w=1/5 {
  2.          replace lim_fav=helmfvact==1 if helmfvact>=0 & wave==`w'
  3. }
  (8,245 real changes made)
  (7,075 real changes made)
  (5,799 real changes made)
  (4,737 real changes made)
  (8,334 real changes made)

839 label var lim_fav "Last month ever kept from favorite activity by health/funct
  > ion"

840
841
842 capture drop lim_fav_yr

843 ////NEW limited favorite activity
  > gen lim_fav_yr=.
  (47,778 missing values generated)

844 forvalues w=6/7 {
  2.          replace lim_fav_yr=fvactlimyr==1 if fvactlimyr>=0 & wave==`w'
  3. }
  (7,276 real changes made)
  (6,312 real changes made)

845
846 label var lim_fav_yr "Last year ever kept from favorite activity by health/fun
  > ction"
```

```
847
848
849 //social cohesion
850 gen cohesion_knowwell=.
   (47,778 missing values generated)

851 gen cohesion_willnghlp=.
   (47,778 missing values generated)

852 gen cohesion_peoptrstd=.
   (47,778 missing values generated)

853
854 forvalues w=1/$w {
   2.          foreach x in knowwell willnghlp peoptrstd {
   3.                  replace cohesion_`x'=`x' if !missing(`x') & wave==`w'
   4. }
   5. }
   (7,464 real changes made)
   (7,392 real changes made)
   (7,267 real changes made)
   (5,941 real changes made)
   (5,871 real changes made)
   (5,768 real changes made)
   (4,751 real changes made)
   (4,707 real changes made)
   (4,605 real changes made)
   (3,946 real changes made)
   (3,900 real changes made)
   (3,815 real changes made)
   (7,401 real changes made)
   (7,303 real changes made)
   (7,158 real changes made)
   (6,273 real changes made)
   (6,182 real changes made)
   (6,090 real changes made)
   (5,464 real changes made)
   (5,386 real changes made)
   (5,277 real changes made)

855 rename cohesion_willnghlp cohesion_willing

856 rename cohesion_peoptrstd cohesion_peop

857
858 gen cohesion=(cohesion_p+cohesion_k+cohesion_w==3) ///
   > if !missing(cohesion_k) | !missing(cohesion_w) | !missing(cohesion_p)
   (5,935 missing values generated)

859
860 label var cohesion_knowwell "People know each other well in the community"

861 label var cohesion_w "People are willing to help each other in the commmunity"

862 label var cohesion_p "People can be trusted in the community"

863 label define cohesion_ 1 "Agree a lot" 2 "Agree a little" 3 "Do not agree"

864 label values cohesion_* cohesion_
```

```
865 label var cohesion "High community cohesion (Highest on all 3 statements)"

866
867 gen home_disorder_insd=.
  (47,778 missing values generated)

868 gen home_disorder_outsd=.
  (47,778 missing values generated)

869 gen home_disorder_area=.
  (47,778 missing values generated)

870 gen home_disorder_clutter=.
  (47,778 missing values generated)

871
872 foreach x of varlist condhome* {
    2. replace `x'=. if `x'==7
    3. replace `x'=0 if `x'==2
    4. }
  (786 real changes made, 786 to missing)
  (40,243 real changes made)
  (1,169 real changes made, 1,169 to missing)
  (39,552 real changes made)
  (938 real changes made, 938 to missing)
  (39,448 real changes made)
  (7,921 real changes made, 7,921 to missing)
  (33,473 real changes made)
  (802 real changes made, 802 to missing)
  (34,426 real changes made)
  (1,015 real changes made, 1,015 to missing)
  (21,538 real changes made)

873 foreach x of varlist areacond* {
    2. replace `x'=. if `x'==5
    3. replace `x'=0 if `x'==1
    4. replace `x'=`x'>1 if !missing(`x')
    5. }
  (713 real changes made, 713 to missing)
  (37,881 real changes made)
  (3,816 real changes made)
  (705 real changes made, 705 to missing)
  (40,610 real changes made)
  (1,095 real changes made)
  (772 real changes made, 772 to missing)
  (39,033 real changes made)
  (2,605 real changes made)
  (0 real changes made)
  (7,353 real changes made)
  (245 real changes made)

874 foreach x of varlist clutter* {
    2. replace `x'=. if `x'==4
    3. replace `x'=0 if `x'==1
    4. replace `x'=`x'>1 if !missing(`x')
    5. }
  (0 real changes made)
  (28,564 real changes made)
  (10,337 real changes made)
  (5,167 real changes made, 5,167 to missing)
  (25,760 real changes made)
  (7,974 real changes made)
```

```
875 foreach x of varlist condihom* {
    2. replace `x'=`x'==1 if !missing(`x')
    3. }
  (37,536 real changes made)
  (38,085 real changes made)
  (38,037 real changes made)
  (37,226 real changes made)
  (35,119 real changes made)

876 /*
  > //forvalues w=1/$w{
  >          foreach x of varlist condihom* condhome* areacond* clutter* {
  >                  replace `x'=. if    & wave==`w'
  >                  qui sum `x'
  >                  if r(max)==2 replace `x'=`x'==1 if !missing(`x') & wave==`w'
  >                  if inlist(r(max),3,4) replace `x'=`x'>1 if !missing(`x') & wav
  > e==`w'
  > }
  > */
877          egen insd=rowtotal(condihom*), m
  (8877 missing values generated)

878          egen outsd=rowtotal(condhome*), m
  (6069 missing values generated)

879          egen area=rowtotal(areacond*), m
  (6056 missing values generated)

880          egen clutter=rowtotal(clutter*), m
  (8877 missing values generated)

881
882
883          foreach x in insd outsd area clutter {
    2.                  replace home_disorder_`x'=`x'>=1 if !missing(`x')
    3.                  drop `x'
    4. }
  (38,901 real changes made)
  (41,709 real changes made)
  (41,722 real changes made)
  (38,901 real changes made)

884
885
886 label var home_disorder_insd "Disorder in home (peelng paint, pests, brkn furn
  > iture or floorbrds, trippng hazards)"
  note: label truncated to 80 characters

887 label var home_disorder_outsd "Disorder outside (brkn windows, foundation, bri
  > cks/siding, roof, steps)"

888 label var home_disorder_clutter "Disorder in home (clutter in interview or oth
  > er rooms)"

889 label var home_disorder_area "Disorder in immed area (litter/glass/graffiti/va
  > cant houses/stores/foreclosures)"

890
891 //rename finhlpfam finhlpfam_old
892 //rename fingftfam fingftfam_old
```

```
893 //economic well-being---look at this section for strangeness 3/1/19
894 foreach x in pycredbal crecardeb credcdmed amtcrdmed medpaovtm ampadovrt ///
  > whohelfi1 whohelfi2 atchhelyr whregoth1 whregoth2 ///
  > whregoth3 amthlpgiv progneed1 progneed2 progneed3 mealskip ///
  > mealskip2 nopayhous nopayutil nopaymed {
    2.          replace `x'=. if `x'<0
    3. }
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)

895
896 foreach x in creditdebt medcreditdebt medbillsovertime medpaynotcash ///
  > govtasst {
    2.          gen `x'=.
    3. }
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)
  (47,778 missing values generated)

897
898 replace creditdebt=inlist(pycredbal,2,3) | !missing(crecardeb) if ///
  > !missing(pycredbal) | !missing(crecardeb)
  (40,518 real changes made)

899 replace medcreditdebt=credcdmed==1 if !missing(credcdmed)
  (8,071 real changes made)

900 replace medbillsovertime=medpaovtm==1 if !missing(medpaovtm)
  (40,680 real changes made)

901 replace medpaynotcash=medbillsovertime==1 | medcreditdebt==1 if !missing(medbi
  > llsovertime) | ///
  > !missing(medcreditdebt)
  (40,722 real changes made)

902
903 gen finhlpfam_n=finhlpfam==1 if !missing(finhlpfam)
  (7,087 missing values generated)
```

```
904 gen fingftfam_n= fingftfam==1 if !missing(finhlpfam)
    (7,087 missing values generated)

905 replace govtasst=progneed1==1 | progneed2==1 | progneed3==1 if !missing(progne
  > ed1) ///
  > | !missing(progneed2) | !missing(progneed3)
    (40,842 real changes made)

906
907
908 replace medpaynotcash=medbillsovertime==1 | medcreditdebt==1 if !missing(medbi
  > llsovertime) | !missing(medcreditdebt)
    (0 real changes made)

909
910 label var creditdebt "Has credit card debt or does not pay off in full monthly
  > "

911 label var medpaynotcash "Has medical credit card debt or pays bills over time"

912 label var govtasst "Receives foodstamps or other food or gas/energy assistance
  > "

913
914 drop finhlpfam fingftfam

915 rename finhlpfam_n finhlpfam

916 rename fingftfam_n fingftfam

917 //home ownership
918
919 local homevars ownhome rent mortgagepaidoff paysmortgage /*mortpaymt*/ ///
  > timeinmort owedonmort homevalue_n rentpaid section8

920
921 foreach x of local homevars {
    2.          gen `x'=.
    3. }
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)
    (47,778 missing values generated)

922
923 label var ownhome "SP owns home"

924 label var rent "SP rents"

925 label var mortgagepaidoff "Mortgage is paid off"

926 label var mortpaymt "Mortgage payment"

927 label define mortpaymt 1 "<$250" 2 "$250-499" 3 "$500-999" 4 "$1000+"
```

```
928 label values mortpaymt mortpaymt

929 label var timeinmort "Time left in mortgage"

930 label define timeinmort 1 "5 years" 2 "10 years" 3 "Longer than 10 years"

931 label values timeinmort timeinmort

932 label var owedonmort "Amount left on mortgage"

933 label define owedonmort 1 "<$50,000" 2 "$50,000-99,999.99" 3 "$100,000+"

934 label values owedonmort owedonmort

935 label var homevalue "Home value"

936 label define homevalue_n 1 "<$50K" 2 "50-75K" 3 "75-100K" 4 "100-200K" 5 "200-
  > 300K" ///
  > 6 "300-500K" 7 "500-750K" 8 "$750K+"

937 label values homevalue_n homevalue_n

938
939 forvalues w=1/$w {
    2. tab ownrentot
    3. replace ownhome=ownrentot==1 if wave==`w' & (!missing(ownrento) | res_care=
  > =1)
    4. replace rent=ownrentot==2 if wave==`w' & (!missing(ownrento) | res_care==1)
    5. tab mrtpadoff
    6. replace mortgagepaidoff=mrtpadoff==1 if !missing(mrtpadoff)
    7. replace paysmortgage=mrtpadoff==2 if !missing(mrtpadoff)
    8. tab mortpaymt
    9. replace mortpaymt= mortpaymt if wave==`w'
   10. qui replace mortpaymt=1 if wave==`w' & mthlymort<250
   11. qui replace mortpaymt=2 if wave==`w' & mthlymort>=250 & mthlymort<=499
   12. qui replace mortpaymt=3 if wave==`w' & mthlymort>=500 & mthlymort<1000
   13. qui replace mortpaymt=4 if wave==`w' & mthlymort>=1000 & !missing(mthlymort
  > )
   14. tab whnpayoff
   15. replace timeinmort=whnpayoff if wave==`w'
   16. tab amoutowed
   17. replace owedonmort=amoutowed if wave==`w'
   18. qui replace owedonmort=1 if wave==`w' & amtstlowe<50000
   19. qui replace owedonmort=2 if wave==`w' & amtstlowe>=50000 & amtstlowe<=10000
  > 0
   20. qui replace owedonmort=3 if wave==`w' & amtstlowe>=100000 & !missing(amtstl
  > owe)
   21. tab homvalamt
   22. replace homevalue_n= homvalamt if wave==`w'
   23. qui replace homevalue_n=1 if wave==`w' & homevalue<50000 & homevalue>=0
   24. qui replace homevalue_n=2 if wave==`w' & homevalue>=50000 & homevalue<75000
   25. qui replace homevalue_n=3 if wave==`w' & homevalue>=75000 & homevalue<10000
  > 0
   26. qui replace homevalue_n=4 if wave==`w' & homevalue>=100000 & homevalue<2000
  > 00
   27. qui replace homevalue_n=5 if wave==`w' & homevalue>=200000 & homevalue<3000
  > 00
   28. qui replace homevalue_n=6 if wave==`w' & homevalue>=300000 & homevalue<5000
  > 00
   29. qui replace homevalue_n=7 if wave==`w' & homevalue>=500000 & homevalue<7500
  > 00
   30. qui replace homevalue_n=8 if wave==`w' & homevalue>=750000 & !missing(homev
  > alue)
   31.
```

```
940 tab rentamou
 32. replace rentpaid =rentamou if wave==`w'
 33. qui replace rentpaid=1 if wave==`w' & rentamt<250 & rentamt>=0
 34. qui replace rentpaid=2 if wave==`w' & rentamt>=250 & rentamt<=499
 35. qui replace rentpaid=3 if wave==`w' & rentamt>=500 & rentamt<1000
 36. qui replace rentpaid=4 if wave==`w' & rentamt>=1000 & !missing(rentamt)
 37. qui replace rentpaid=4 if inlist(rentpaid,5,6)
 38. replace mortpaymt=4 if inlist(mortpaymt,5,6)
 39. tab sec8pubsn
 40. replace section8=sec8pubsn==1 if wave==`w' & (!missing(sec8pubsn) |ownhome=
> =1 | rent==1)
 41. }
```

R1 HP1 OWN RENT OR OTHER	Freq.	Percent	Cum.
1 OWN	28,695	72.06	72.06
2 RENT	7,256	18.22	90.28
3 SOME OTHER ARRANGEMENT	3,870	9.72	100.00
Total	39,821	100.00	

(8,130 real changes made)
(8,130 real changes made)

R1 HP2 MORTGAGE PAID OFF	Freq.	Percent	Cum.
1 PAID OFF	19,909	70.02	70.02
2 STILL MAKE PAYMENTS	8,119	28.55	98.58
3 REVERSE MORTGAGE	405	1.42	100.00
Total	28,433	100.00	

(28,433 real changes made)
(28,433 real changes made)

Mortgage payment	Freq.	Percent	Cum.
<$250	19	5.60	5.60
$250-499	76	22.42	28.02
$500-999	125	36.87	64.90
$1000+	111	32.74	97.64
5	3	0.88	98.53
6	5	1.47	100.00
Total	339	100.00	

(0 real changes made)

R1 HP3B WHEN EXPCT PAY OFF MORTG	Freq.	Percent	Cum.
1 5 YEARS	2,065	26.98	26.98
2 10 YEARS	1,535	20.06	47.04
3 LONGER THAN 10 YEARS	4,053	52.96	100.00
Total	7,653	100.00	

(1,365 real changes made)

R1 HP3D THE AMOUNT OWED IS	Freq.	Percent	Cum.
1 less than $50,000,	391	47.11	47.11
2 between $50,000 and $100,000, or	260	31.33	78.43
3 over $100,000?	179	21.57	100.00
Total	830	100.00	

(115 real changes made)

```
      R1 HP4A HOME VALUE |
                  AMOUNT |      Freq.       Percent          Cum.
-----------------------+-----------------------------------------
   1 less than $50,000, |       397         14.55         14.55
   2 $50,000-$74,999,  |       449         16.46         31.01
   3 $75,000-$99,999,  |       447         16.39         47.40
   4 $100,000-$199,999, |       697         25.55         72.95
   5 $200,000-$299,999, |       328         12.02         84.97
   6 $300,000-$499,999, |       239          8.76         93.73
 7 $500,000-$749,999, or |        99          3.63         97.36
     8 $750,000 or more? |        72          2.64        100.00
-----------------------+-----------------------------------------
                 Total |      2,728        100.00
(496 real changes made)

          R1 HP6A RENT |
                AMOUNT |      Freq.       Percent          Cum.
-----------------+------------------------------------------
 1 less than $250, |        26          8.31          8.31
     2 $250-$499,  |        76         24.28         32.59
   3 $500-$999, or |        81         25.88         58.47
   4 $1,000 or more? |        68         21.73         80.19
                 5 |        37         11.82         92.01
                 6 |        25          7.99        100.00
-----------------+------------------------------------------
           Total |       313        100.00
(20 real changes made)
(8 real changes made)

 R1 HP7 HME SEC |
   8 PUBL SENOR |
          HOUS |       Freq.      Percent         Cum.
---------------+------------------------------------------
         1 YES |      1,933        42.61         42.61
          2 NO |      2,604        57.39        100.00
---------------+------------------------------------------
         Total |      4,537        100.00
(6,492 real changes made)

 R1 HP1 OWN RENT OR OTHER |       Freq.      Percent         Cum.
-----------------------+------------------------------------------
                   1 OWN |      28,695        72.06         72.06
                  2 RENT |       7,256        18.22         90.28
 3 SOME OTHER ARRANGEMENT |       3,870         9.72        100.00
-----------------------+------------------------------------------
                 Total |      39,821        100.00
(6,538 real changes made)
(6,538 real changes made)

  R1 HP2 MORTGAGE PAID |
                   OFF |       Freq.       Percent          Cum.
---------------------+------------------------------------------
           1 PAID OFF |      19,909        70.02         70.02
 2 STILL MAKE PAYMENTS |       8,119        28.55         98.58
     3 REVERSE MORTGAGE |        405         1.42        100.00
---------------------+------------------------------------------
                 Total |      28,433        100.00
(0 real changes made)
(0 real changes made)

    Mortgage |
    payment |      Freq.      Percent         Cum.
-----------+------------------------------------------
      <$250 |        79          4.90          4.90
   $250-499 |       316         19.60         24.50
   $500-999 |       624         38.71         63.21
     $1000+ |       593         36.79        100.00
-----------+------------------------------------------
      Total |      1,612        100.00
(0 real changes made)
```

```
R1 HP3B WHEN EXPCT PAY |
         OFF MORTG |      Freq.       Percent         Cum.
----------------------+----------------------------------
         1 5 YEARS |     2,065         26.98        26.98
        2 10 YEARS |     1,535         20.06        47.04
3 LONGER THAN 10 YEARS |  4,053         52.96       100.00
----------------------+----------------------------------
            Total |     7,653        100.00
(1,088 real changes made)
```

```
     R1 HP3D THE AMOUNT OWED IS |     Freq.      Percent        Cum.
----------------------------------+----------------------------------
          1 less than $50,000, |      391        47.11       47.11
2 between $50,000 and $100,000, or |   260        31.33       78.43
               3 over $100,000? |      179        21.57      100.00
----------------------------------+----------------------------------
                Total |              830       100.00
(132 real changes made)
```

```
    R1 HP4A HOME VALUE |
            AMOUNT |      Freq.       Percent         Cum.
----------------------+----------------------------------
  1 less than $50,000, |     397         14.55        14.55
  2 $50,000-$74,999, |       449         16.46        31.01
  3 $75,000-$99,999, |       447         16.39        47.40
4 $100,000-$199,999, |       697         25.55        72.95
5 $200,000-$299,999, |       328         12.02        84.97
6 $300,000-$499,999, |       239          8.76        93.73
7 $500,000-$749,999, or |     99          3.63        97.36
  8 $750,000 or more? |        72          2.64       100.00
----------------------+----------------------------------
            Total |      2,728        100.00
(403 real changes made)
```

```
    R1 HP6A RENT |
         AMOUNT |      Freq.       Percent         Cum.
------------------+----------------------------------
1 less than $250, |      26          8.31         8.31
   2 $250-$499, |        76         24.28        32.59
 3 $500-$999, or |       81         25.88        58.47
4 $1,000 or more? |      68         21.73        80.19
             5 |         37         11.82        92.01
             6 |         25          7.99       100.00
------------------+----------------------------------
        Total |         313        100.00
(18 real changes made)
(0 real changes made)
```

```
R1 HP7 HME SEC |
  8 PUBL SENOR |
         HOUS |      Freq.       Percent         Cum.
----------------+----------------------------------
        1 YES |     1,933         42.61        42.61
        2 NO |      2,604         57.39       100.00
----------------+----------------------------------
        Total |     4,537        100.00
(5,130 real changes made)
```

```
R1 HP1 OWN RENT OR OTHER |     Freq.      Percent        Cum.
----------------------+----------------------------------
              1 OWN |    28,695        72.06        72.06
             2 RENT |     7,256        18.22        90.28
3 SOME OTHER ARRANGEMENT |  3,870       9.72       100.00
----------------------+----------------------------------
            Total |    39,821       100.00
(5,176 real changes made)
(5,176 real changes made)
```

```
R1 HP2 MORTGAGE PAID |
                 OFF |     Freq.      Percent        Cum.
---------------------+---------------------------------
        1 PAID OFF |   19,909       70.02        70.02
2 STILL MAKE PAYMENTS |    8,119       28.55        98.58
   3 REVERSE MORTGAGE |      405        1.42       100.00
---------------------+---------------------------------
              Total |   28,433      100.00
(0 real changes made)
(0 real changes made)
```

```
  Mortgage |
  payment |     Freq.      Percent        Cum.
-----------+---------------------------------
    <$250 |       124        4.72         4.72
  $250-499 |       500       19.03        23.74
  $500-999 |     1,036       39.42        63.17
    $1000+ |       968       36.83       100.00
-----------+---------------------------------
    Total |     2,628      100.00
(0 real changes made)
```

```
R1 HP3B WHEN EXPCT PAY |
           OFF MORTG |     Freq.      Percent        Cum.
---------------------+---------------------------------
         1 5 YEARS |    2,065       26.98        26.98
        2 10 YEARS |    1,535       20.06        47.04
3 LONGER THAN 10 YEARS |    4,053       52.96       100.00
---------------------+---------------------------------
              Total |    7,653      100.00
(862 real changes made)
```

```
      R1 HP3D THE AMOUNT OWED IS |     Freq.      Percent        Cum.
--------------------------------------+---------------------------------
          1 less than $50,000, |      391       47.11        47.11
2 between $50,000 and $100,000, or |      260       31.33        78.43
              3 over $100,000? |      179       21.57       100.00
--------------------------------------+---------------------------------
                          Total |      830      100.00
(89 real changes made)
```

```
   R1 HP4A HOME VALUE |
              AMOUNT |     Freq.      Percent        Cum.
---------------------+---------------------------------
  1 less than $50,000, |      397       14.55        14.55
  2 $50,000-$74,999, |      449       16.46        31.01
  3 $75,000-$99,999, |      447       16.39        47.40
4 $100,000-$199,999, |      697       25.55        72.95
5 $200,000-$299,999, |      328       12.02        84.97
6 $300,000-$499,999, |      239        8.76        93.73
7 $500,000-$749,999, or |       99        3.63        97.36
  8 $750,000 or more? |       72        2.64       100.00
---------------------+---------------------------------
              Total |    2,728      100.00
(354 real changes made)
```

```
   R1 HP6A RENT |
          AMOUNT |     Freq.      Percent        Cum.
-----------------+---------------------------------
1 less than $250, |       26        8.31         8.31
    2 $250-$499, |       76       24.28        32.59
  3 $500-$999, or |       81       25.88        58.47
4 $1,000 or more? |       68       21.73        80.19
              5 |       37       11.82        92.01
              6 |       25        7.99       100.00
-----------------+---------------------------------
          Total |      313      100.00
(16 real changes made)
(0 real changes made)
```

```
R1 HP7 HME SEC |
 8 PUBL SENOR  |
          HOUS |     Freq.       Percent        Cum.
---------------+----------------------------------
         1 YES |     1,933        42.61         42.61
          2 NO |     2,604        57.39        100.00
---------------+----------------------------------
         Total |     4,537       100.00
(4,035 real changes made)

R1 HP1 OWN RENT OR OTHER |     Freq.       Percent        Cum.
-----------------------+----------------------------------
                 1 OWN |    28,695        72.06         72.06
                2 RENT |     7,256        18.22         90.28
3 SOME OTHER ARRANGEMENT |   3,870         9.72        100.00
-----------------------+----------------------------------
                 Total |    39,821       100.00
(4,207 real changes made)
(4,207 real changes made)

 R1 HP2 MORTGAGE PAID |
                  OFF |     Freq.       Percent        Cum.
---------------------+----------------------------------
          1 PAID OFF |    19,909        70.02         70.02
2 STILL MAKE PAYMENTS |    8,119        28.55         98.58
   3 REVERSE MORTGAGE |      405         1.42        100.00
---------------------+----------------------------------
                Total |    28,433       100.00
(0 real changes made)
(0 real changes made)

   Mortgage |
    payment |     Freq.       Percent        Cum.
------------+----------------------------------
      <$250 |       165         4.78          4.78
   $250-499 |       660        19.14         23.92
   $500-999 |     1,351        39.17         63.09
     $1000+ |     1,273        36.91        100.00
------------+----------------------------------
      Total |     3,449       100.00
(0 real changes made)

R1 HP3B WHEN EXPCT PAY |
           OFF MORTG |     Freq.       Percent        Cum.
---------------------+----------------------------------
         1 5 YEARS |     2,065        26.98         26.98
        2 10 YEARS |     1,535        20.06         47.04
3 LONGER THAN 10 YEARS |  4,053        52.96        100.00
---------------------+----------------------------------
                Total |     7,653       100.00
(668 real changes made)

        R1 HP3D THE AMOUNT OWED IS |     Freq.       Percent        Cum.
-----------------------------------+----------------------------------
            1 less than $50,000, |      391        47.11         47.11
2 between $50,000 and $100,000, or |    260        31.33         78.43
                3 over $100,000? |      179        21.57        100.00
-----------------------------------+----------------------------------
                             Total |      830       100.00
(68 real changes made)
```

```
       R1 HP4A HOME VALUE |
                   AMOUNT |     Freq.       Percent        Cum.
------------------------+---------------------------------------
    1 less than $50,000, |       397        14.55        14.55
      2 $50,000-$74,999, |       449        16.46        31.01
      3 $75,000-$99,999, |       447        16.39        47.40
    4 $100,000-$199,999, |       697        25.55        72.95
    5 $200,000-$299,999, |       328        12.02        84.97
    6 $300,000-$499,999, |       239         8.76        93.73
   7 $500,000-$749,999, or |       99         3.63        97.36
        8 $750,000 or more? |       72         2.64       100.00
------------------------+---------------------------------------
                  Total |     2,728       100.00
(278 real changes made)
```

```
       R1 HP6A RENT |
             AMOUNT |     Freq.       Percent        Cum.
------------------+---------------------------------------
 1 less than $250, |        26         8.31         8.31
      2 $250-$499, |        76        24.28        32.59
   3 $500-$999, or |        81        25.88        58.47
   4 $1,000 or more? |      68        21.73        80.19
                 5 |        37        11.82        92.01
                 6 |        25         7.99       100.00
------------------+---------------------------------------
             Total |       313       100.00
(11 real changes made)
(0 real changes made)
```

```
 R1 HP7 HME SEC |
    8 PUBL SENOR |
           HOUS |     Freq.       Percent        Cum.
---------------+---------------------------------------
          1 YES |     1,933        42.61        42.61
          2 NO |     2,604        57.39       100.00
---------------+---------------------------------------
         Total |     4,537       100.00
(3,258 real changes made)
```

```
 R1 HP1 OWN RENT OR OTHER |     Freq.       Percent        Cum.
------------------------+---------------------------------------
                 1 OWN |    28,695        72.06        72.06
                 2 RENT |     7,256        18.22        90.28
 3 SOME OTHER ARRANGEMENT |   3,870         9.72       100.00
------------------------+---------------------------------------
                  Total |    39,821       100.00
(7,818 real changes made)
(7,818 real changes made)
```

```
  R1 HP2 MORTGAGE PAID |
                   OFF |     Freq.       Percent        Cum.
----------------------+---------------------------------------
          1 PAID OFF |    19,909        70.02        70.02
 2 STILL MAKE PAYMENTS |     8,119        28.55        98.58
    3 REVERSE MORTGAGE |       405         1.42       100.00
----------------------+---------------------------------------
                 Total |    28,433       100.00
(0 real changes made)
(0 real changes made)
```

```
   Mortgage |
    payment |     Freq.       Percent        Cum.
------------+---------------------------------------
      <$250 |       191         4.69         4.69
   $250-499 |       786        19.30        23.99
   $500-999 |     1,584        38.89        62.88
     $1000+ |     1,512        37.12       100.00
------------+---------------------------------------
      Total |     4,073       100.00
(0 real changes made)
```

```
R1 HP3B WHEN EXPCT PAY |
          OFF MORTG |       Freq.      Percent         Cum.
----------------------+----------------------------------------
          1 5 YEARS |       2,065        26.98         26.98
         2 10 YEARS |       1,535        20.06         47.04
3 LONGER THAN 10 YEARS |     4,053        52.96        100.00
----------------------+----------------------------------------
             Total |       7,653       100.00
(1,453 real changes made)
```

```
        R1 HP3D THE AMOUNT OWED IS |       Freq.      Percent        Cum.
----------------------------------+----------------------------------------
            1 less than $50,000,  |         391        47.11        47.11
2 between $50,000 and $100,000, or |        260        31.33        78.43
             3 over $100,000? |          179        21.57       100.00
----------------------------------+----------------------------------------
                       Total |         830       100.00
(191 real changes made)
```

```
     R1 HP4A HOME VALUE |
              AMOUNT |       Freq.      Percent         Cum.
----------------------+----------------------------------------
 1 less than $50,000,  |         397        14.55        14.55
 2 $50,000-$74,999,  |         449        16.46        31.01
 3 $75,000-$99,999,  |         447        16.39        47.40
 4 $100,000-$199,999,  |        697        25.55        72.95
 5 $200,000-$299,999,  |        328        12.02        84.97
 6 $300,000-$499,999,  |        239         8.76        93.73
7 $500,000-$749,999, or |         99         3.63        97.36
 8 $750,000 or more? |          72         2.64       100.00
----------------------+----------------------------------------
             Total |       2,728       100.00
(509 real changes made)
```

```
     R1 HP6A RENT |
          AMOUNT |       Freq.      Percent         Cum.
------------------+----------------------------------------
1 less than $250,  |          26         8.31         8.31
  2 $250-$499,  |          76        24.28        32.59
 3 $500-$999, or |          81        25.88        58.47
4 $1,000 or more? |          68        21.73        80.19
             5 |          37        11.82        92.01
             6 |          25         7.99       100.00
------------------+----------------------------------------
         Total |         313       100.00
(87 real changes made)
(0 real changes made)
```

```
R1 HP7 HME SEC |
 8 PUBL SENOR |
         HOUS |       Freq.      Percent         Cum.
---------------+----------------------------------------
       1 YES |       1,933        42.61         42.61
        2 NO |       2,604        57.39        100.00
---------------+----------------------------------------
       Total |       4,537       100.00
(6,829 real changes made)
```

```
R1 HP1 OWN RENT OR OTHER |       Freq.      Percent         Cum.
------------------------+----------------------------------------
                1 OWN |      28,695        72.06        72.06
               2 RENT |       7,256        18.22        90.28
3 SOME OTHER ARRANGEMENT |      3,870         9.72       100.00
------------------------+----------------------------------------
             Total |      39,821       100.00
(6,719 real changes made)
(6,719 real changes made)
```

```
R1 HP2 MORTGAGE PAID |
                 OFF |    Freq.      Percent       Cum.
---------------------+---------------------------------
         1 PAID OFF |   19,909       70.02       70.02
2 STILL MAKE PAYMENTS |   8,119       28.55       98.58
    3 REVERSE MORTGAGE |     405        1.42      100.00
---------------------+---------------------------------
               Total |   28,433      100.00
(0 real changes made)
(0 real changes made)


   Mortgage |
    payment |    Freq.      Percent       Cum.
------------+---------------------------------
     <$250 |      254        4.69        4.69
   $250-499 |      990       18.27       22.95
   $500-999 |    2,133       39.35       62.31
     $1000+ |    2,043       37.69      100.00
------------+---------------------------------
      Total |    5,420      100.00
(0 real changes made)

R1 HP3B WHEN EXPCT PAY |
            OFF MORTG |    Freq.      Percent       Cum.
----------------------+---------------------------------
          1 5 YEARS |    2,065       26.98       26.98
         2 10 YEARS |    1,535       20.06       47.04
3 LONGER THAN 10 YEARS |    4,053       52.96      100.00
----------------------+---------------------------------
                Total |    7,653      100.00
(1,208 real changes made)

    R1 HP3D THE AMOUNT OWED IS |    Freq.      Percent       Cum.
-------------------------------+---------------------------------
          1 less than $50,000, |      391       47.11       47.11
2 between $50,000 and $100,000, or |   260       31.33       78.43
             3 over $100,000? |      179       21.57      100.00
-------------------------------+---------------------------------
                        Total |      830      100.00
(121 real changes made)

    R1 HP4A HOME VALUE |
               AMOUNT |    Freq.      Percent       Cum.
----------------------+---------------------------------
   1 less than $50,000, |      397       14.55       14.55
   2 $50,000-$74,999, |      449       16.46       31.01
   3 $75,000-$99,999, |      447       16.39       47.40
 4 $100,000-$199,999, |      697       25.55       72.95
 5 $200,000-$299,999, |      328       12.02       84.97
 6 $300,000-$499,999, |      239        8.76       93.73
 7 $500,000-$749,999, or |       99        3.63       97.36
    8 $750,000 or more? |       72        2.64      100.00
----------------------+---------------------------------
                Total |    2,728      100.00
(376 real changes made)

   R1 HP6A RENT |
         AMOUNT |    Freq.      Percent       Cum.
---------------+---------------------------------
1 less than $250, |       26        8.31        8.31
    2 $250-$499, |       76       24.28       32.59
   3 $500-$999, or |       81       25.88       58.47
4 $1,000 or more? |       68       21.73       80.19
              5 |       37       11.82       92.01
              6 |       25        7.99      100.00
---------------+---------------------------------
          Total |      313      100.00
(79 real changes made)
(0 real changes made)
```

```
R1 HP7 HME SEC |
  8 PUBL SENOR |
         HOUS |      Freq.       Percent        Cum.
----------------+----------------------------------
        1 YES |      1,933        42.61        42.61
        2 NO |       2,604        57.39       100.00
----------------+----------------------------------
        Total |     4,537       100.00
(5,895 real changes made)
```

```
R1 HP1 OWN RENT OR OTHER |     Freq.      Percent       Cum.
------------------------+----------------------------------
              1 OWN |     28,695       72.06        72.06
             2 RENT |      7,256       18.22        90.28
3 SOME OTHER ARRANGEMENT |   3,870        9.72       100.00
------------------------+----------------------------------
              Total |     39,821      100.00
(5,807 real changes made)
(5,807 real changes made)
```

```
 R1 HP2 MORTGAGE PAID |
                  OFF |     Freq.      Percent        Cum.
---------------------+----------------------------------
        1 PAID OFF |     19,909       70.02        70.02
2 STILL MAKE PAYMENTS |    8,119       28.55        98.58
   3 REVERSE MORTGAGE |      405        1.42       100.00
---------------------+----------------------------------
              Total |     28,433      100.00
(0 real changes made)
(0 real changes made)
```

```
   Mortgage |
    payment |     Freq.      Percent        Cum.
-----------+----------------------------------
     <$250 |       304        4.63         4.63
   $250-499 |     1,169       17.79        22.41
   $500-999 |     2,583       39.30        61.72
     $1000+ |     2,516       38.28       100.00
-----------+----------------------------------
      Total |     6,572      100.00
(0 real changes made)
```

```
 R1 HP3B WHEN EXPCT PAY |
           OFF MORTG |     Freq.      Percent        Cum.
---------------------+----------------------------------
        1 5 YEARS |      2,065       26.98        26.98
        2 10 YEARS |     1,535       20.06        47.04
3 LONGER THAN 10 YEARS |   4,053       52.96       100.00
---------------------+----------------------------------
              Total |     7,653      100.00
(1,009 real changes made)
```

```
        R1 HP3D THE AMOUNT OWED IS |     Freq.      Percent       Cum.
-----------------------------------+----------------------------------
             1 less than $50,000, |      391        47.11        47.11
2 between $50,000 and $100,000, or |      260        31.33        78.43
                 3 over $100,000? |      179        21.57       100.00
-----------------------------------+----------------------------------
                            Total |      830       100.00
(114 real changes made)
```

```
        R1 HP4A HOME VALUE |
                   AMOUNT |      Freq.       Percent        Cum.
------------------------+------------------------------------
    1 less than $50,000, |        397         14.55        14.55
       2 $50,000-$74,999, |        449         16.46        31.01
       3 $75,000-$99,999, |        447         16.39        47.40
     4 $100,000-$199,999, |        697         25.55        72.95
     5 $200,000-$299,999, |        328         12.02        84.97
     6 $300,000-$499,999, |        239          8.76        93.73
   7 $500,000-$749,999, or |         99          3.63        97.36
       8 $750,000 or more? |         72          2.64       100.00
------------------------+------------------------------------
                   Total |      2,728        100.00
 (312 real changes made)

        R1 HP6A RENT |
              AMOUNT |      Freq.       Percent        Cum.
-----------------+------------------------------------
 1 less than $250, |         26          8.31         8.31
       2 $250-$499, |         76         24.28        32.59
     3 $500-$999, or |         81         25.88        58.47
    4 $1,000 or more? |         68         21.73        80.19
                 5 |         37         11.82        92.01
                 6 |         25          7.99       100.00
-----------------+------------------------------------
              Total |        313        100.00
 (82 real changes made)
 (0 real changes made)

  R1 HP7 HME SEC |
    8 PUBL SENOR |
           HOUS |      Freq.       Percent        Cum.
---------------+------------------------------------
           1 YES |      1,933         42.61        42.61
            2 NO |      2,604         57.39       100.00
---------------+------------------------------------
            Total |      4,537        100.00
 (5,093 real changes made)

941
942 drop homevalue

943 rename homevalue_n homevalue

944
945 label var rentpaid "Amount rent paid"

946 label define rentpaid 1 "<$250" 2 "250-499" 3 "500-999" 4 "$1000+"

947 label values rentpaid rentpaid

948 label var section8 "Indicator lives in Section 8 housing"

949 label var medcreditdebt "Has Medical credit card debt"

950 label var medbillsovertime "Pays Medical bills over time"

951 label var finhlpfam "Received financial help/gifts from family"

952 label var fingftfam "Provided financial help/gifts to family"
```

```
953 label var paysmortgage "Pays a mortgage"

954 gen n_social_network=.
   (47,778 missing values generated)

955
956 replace n_social_network=dnumsn if dnumsn>=0
   (39,585 real changes made)

957
958 label var n_social_network "Number in social network"

959
960 gen division=.
   (47,778 missing values generated)

961
962 replace division=dcensdiv if dcensdiv>0
   (47,777 real changes made)

963
964 gen region=division
   (1 missing value generated)

965 recode region (1 2=1) (3 4=2) (5/7=3) (8 9=4)
   (region: 45410 changes made)

966
967 la define region 1 "Northeast" 2 "Midwest" 3 "South" 4 "West"

968 label values region region

969
970 capture gen northeast=0

971 capture gen midwest=0

972 capture gen south=0

973 capture gen west=0

974
975 replace northeast=1 if region==1
   (8,357 real changes made)

976 replace midwest=1 if region==2
   (11,588 real changes made)

977 replace south=1 if region==3
   (18,751 real changes made)

978 replace west=1 if region==4
   (9,081 real changes made)

979
980 /*and now drop all raw variables
  > forvalues i=1/7 {
  >        drop r`i'* ip`i'* is`i'* re`i'* hc`i'* ht`i'* hh`i'* ss`i'* fl`i'* ///
  >         pc`i'* cp`i'* cg`i'* mo`i'* ha`i'* sc`i'* mc`i'* pa`i'* sd`i'* hw`i'*
  >  ///
  >         cm`i'* sn`i'* hp`i'* ew`i'* ir`i'* dt`i'* wb`i'* wa`i'* gr`i'* ho`i'*
  >  cs`i'*
  > }
  >
  > drop el1* rl1* ia1* ep2* pd2* pd3* pd4* pd5* pd6* pd7* ia3* ia5* ia7*
  > */
```

```
981 //rename round*status r*status
982
983 svyset varunit [pw=anfinwgt], strat(varstrat)

        pweight: anfinwgt
            VCE: linearized
    Single unit: missing
       Strata 1: varstrat
          SU 1: varunit
         FPC 1: <zero>

984
985 sort spid wave

986 by spid: carryforward educ*, replace
   education:  (0 real changes made)
   educ_hs_ind:  (32766 real changes made)

987 label var educ_hs_ind "Education: HS+"

988 notes drop educ*
    (3 notes dropped)

989
990 //10/25/18--add in payer and other variables from Jenny's homebound project
991 preserve

992 /*local mo outoft outcane outwalkr outwlchr outsctr outhlp outslf outdif outyr
  > go ///
  > outwout oftgoarea oflvslepr insdcane insdwalkr insdwlchr insdsctr oftholdwl //
  > /
  > insdhlp insdslf insddif insdyrgo insdwout beddev bedhlp bedslf beddif bedwout
  >
  > local sc eatdevoft eathlp eatoft eatdif eatwout showrbat1 showrbat2 showrbat3
  > ///
  > prfrshbth scusgrbrs shtubseat bathhlp bathoft bathdif bathyrgo bathwout ///
  > usvartoi1 usvartoi2 usvartoi3 usvartoi4 toilhlp toiloft toildif toilwout ///
  > dresoft dresdev dreshlp dresyrgo dreswout
  >
  > local ha laun launslf whrmachi1 whrmachi2 whrmachi3 whrmachi4 whrmachi5 ///
  > whrmachi6 laundif launoft launwout shop shopslf howpaygr1 howpaygr2 howpaygr3
  > ///
  >  howpaygr4 howpaygr5 howpaygr6 howpaygr7 howgtstr1 howgtstr2 howgtstr3 howgtst
  > r4 ///
  >  howgtstr5 howgtstr6 howgtstr7 howgtstr8 shopcart shoplean shopdif shopoft sho
  > pwout ///
  >  meal mealslf restamels oftmicrow mealdif mealoft mealwout bank bankslf bankdi
  > f ///
  >  bankoft bankwout money moneyhlp
  >
  > local mc meds medstrk medsslf whrgtmed1 whrgtmed2 whrgtmed3 whrgtmed4 howpkupm
  > 1 ///
  > howpkupm2 howpkupm3 medsrem medsdif medsyrgo medsmis havregdoc regdoclyr hwgtr
  > egd1 ///
  >  hwgtregd2 hwgtregd3 hwgtregd4 hwgtregd5 hwgtregd6 hwgtregd7 hwgtregd8 hwgtreg
  > d9 ///
  >  ansitindr tpersevr1 tpersevr2 tpersevr3 tpersevr4 chginspln anhlpwdec
  > */
993 //note--as of now, doesn't include round 7
994 forvalues wave=1/7 {
    2. use "E:\nhats\data\NHATS Public\round_`wave'\NHATS_Round_`wave'_SP_File.dta
  > ", clear
    3. keep spid cs`wave'dnumchild ho`wave'entrst hh`wave'dhshldnum mo* sc* ha* mc
  > *
    4. gen wave=`wave'
    5. rename cs`wave' n_children
    6. label var n_ch "Number of living children"
    7. rename ho`wave' stairs_ind
    8. label var stairs "Stairs to enter home"
    9. gen livesalone_ind=hh`wave'dhshldnum==1 if hh`wave'dhshldnum>=0
   10. label var livesal "Lives alone (only one in household)"
   11. foreach x in n sta live {
```

```
 12. replace `x'=. if `x'<0
 13. }
 14.
995 local kidvars n_children stairs_ind livesalone_ind
 15. gen ind_kids=n_children>=1 if !missing(n_children)
 16. rename (mo`wave'* sc`wave'* ha`wave'* mc`wave'*) (* * * *)
 17. rename (eatslfdif toiloft bathoft) (eatdif toilslf bathslf)
 18.
996 foreach x in eat toil insd bed dres bath {
 19.        gen `x'_jenny=inlist(`x'slf,3,4) | inlist(`x'dif,3,4) | `x'wout==1
 20. }
 21. egen adlcount=rowtotal(eat_j toil_j insd_j bed_j dres_j bath_j)
 22.
997 //for iadls, reason don't do alone b/c health/function or reported difficulty
  > or went w/o
998 gen medswout=0
 23. foreach x in laun meds shop meal bank {
 24.        drop `x'
 25.        gen `x'_jenny=inlist(d`x'reas,1,3) | inlist(`x'dif,3,4) | `x'wout==
  > 1
 26. }
 27. drop medswout
 28. egen iadlcount=rowtotal(laun_j meds_j shop_j meal_j bank_j)
 29. label var eat_j "Some/lot difficulty eating by self, or rarely/never, or ha
  > d to go w/o"
 30. label var toil_j "Some/lot difficulty toileting by self, or rarely/never, o
  > r had to go w/o"
 31. label var insd_j "Some/lot difficulty moving inside by self, or rarely/neve
  > r, or had to go w/o"
 32. label var bed_j "Some/lot difficulty getting out of bed by self, or rarely/
  > never, or had to go w/o"
 33. label var dres_j "Some/lot difficulty dressing by self, or rarely/never, or
  >  had to go w/o"
 34. label var bath_j "Some/lot difficulty bathing by self, or rarely/never, or
  > had to go w/o"
 35. label var laun_j "Some/lot of difficulty with laundry by self, or not by se
  > lf b/c health, or had to go w/o"
 36. label var meds_j "Some/lot of difficulty with meds by self, or not by self
  > b/c health, or had to go w/o"
 37. label var shop_j "Some/lot of difficulty with shopping by self, or not by s
  > elf b/c health, or had to go w/o"
 38. label var meal_j "Some/lot of difficulty with hot meals by self, or not by
  > self b/c health, or had to go w/o"
 39. label var bank_j "Some/lot of difficulty with banking by self, or not by se
  > lf b/c health, or had to go w/o"
 40.
999 gen device_mobility=inlist(insdwalk,1,2) | inlist(outwalk,1,2) | inlist(insdwl
  > ,1,2) ///
  > | inlist(outwl,1,2) | inlist(insdsct,1,2) | inlist(outsct,1,2)
 41.
1000label var device_mobility "Uses a walker, wheelchair, or scooter inside or out
  > side"
 42.
1001keep spid wave *_jenny device_mobility `kidvars' ind_kids adlcount iadlcount
 43.
1002tempfile kids`wave'
 44. save `kids`wave''
 45.
1003use "E:\nhats\data\NHATS Public\round_`wave'\NHATS_Round_`wave'_OP_File.dta",
  > clear
 46. describe op`wave'*pay*
 47. tab op`wave'*payshlp
 48. tab op`wave'progmpaid
 49.
```

```
1004rename op`wave'sppays op`wave'sppayhlp
   50. foreach x in sp gov ins oth {
   51. gen paid_by_`x'=op`wave'`x'payhlp==1 if op`wave'`x'payhlp>0 | op`wave'`x'pa
 > yhlp<-1
   52. local lab : var label op`wave'`x'payhlp
   53. label var paid_by_`x' "`lab'"
   54. }
   55. gen paid_by_unk=(paid_by_sp+paid_by_oth+paid_by_gov+paid_by_ins)==0 | ///
 > ((paid_by_sp+paid_by_oth+paid_by_gov+paid_by_ins)==-4 & op`wave'paid==1)
   56. label var paid_by_unk "Unknown payer"
   57.
1005
1006levelsof op`wave'progmpaid, local(levels)
   58. foreach l of local levels {
   59. if `l'>0 {
   60. gen paid_by_gov_cat_`l'=op`wave'progmpaid==`l' if op`wave'progmpaid!=-1
   61. local lab : label op`wave'progmpaid `l'
   62. label var paid_by_gov_cat_`l' "`lab'"
   63. }
   64. }
   65. gen paid_by_gov_cat_unknown=op`wave'progmpaid<-1 if op`wave'progmpaid!=-1
   66. label var paid_by_gov_cat_unk "Unknown gov't payer (Missing,RF,DK)"
   67. gen op_insur_help=op`wave'insurhlp==1
   68. gen op_out_help=op`wave'outhlp==1
   69. gen op_money_help=op`wave'moneyhlp==1
   70. gen op_places_help=op`wave'tkplhlp1==1 | op`wave'tkplhlp2==1
   71. label var op_insur_help "Help with insurance decisions"
   72. keep spid opid paid* op_*
   73. tempfile paid
   74. save `paid'
   75. gen wave=`wave'
   76. merge 1:m spid opid wave using "E:\nhats\data\NHATS Cleaned\op_round_1_7",
 > ///
 > keep(match master) gen(opmer)
   77. merge 1:1 spid opid using `paid', keep(match master) gen(paidm)
   78. foreach x of varlist paid_by* {
   79. replace `x'=0 if paid==0
   80. }
   81. drop if n_helpers>=1 & opishelp==0
   82.
1007foreach x in sp gov ins unk oth {
   83. by spid, sort: egen any_paid_by_`x'=max(paid_by_`x')
   84. local lab :var label paid_by_`x'
   85. label var any_paid_by_`x' "`lab'"
   86. }
   87. rename paid_by_gov_cat_91 paid_by_gov_cat_oth
   88. foreach x of varlist paid_by_gov_cat* {
   89. by spid, sort: egen any_`x'=max(`x')
   90. local lab :var label `x'
   91. label var any_`x' "`lab'"
   92. }
   93.
1008
1009by spid: egen any_paid_by_medicare=max(paid_by_gov_cat_2)
   94. label var any_paid_by_medicare "Helper paid by Medicare"
   95. by spid: egen any_paid_by_medicaid=max(paid_by_gov_cat_1)
   96. label var any_paid_by_medicaid "Helper paid by Medicaid"
   97. by spid: egen any_paid_by_state=max(paid_by_gov_cat_3)
   98. label var any_paid_by_state "Helper paid by state program"
   99. gen ind_gt20hrs_wk_inf=tot_hrswk_help_i>20 if !missing(tot_hrswk_help_i)
  100. replace ind_gt20hrs_wk_inf=0 if tot_hrswk_help_i-tot_hrswk_paid_i<20
  101. gen ind_gt20hrs_wk_paid=tot_hrswk_paid_i>20 if !missing(tot_hrswk_paid_i)
  102. label var ind_gt20hrs_wk_i "Unpaid help: >20 hrs wk"
  103. label var ind_gt20hrs_wk_p "Paid help: >20 hrs wk"
  104. gen ind_inf=n_helpers>=1 if !missing(n_helpers)
  105. replace ind_inf=0 if n_paid==n_helpers
  106. label var ind_inf "Any family/unpaid help"
  107. local pvars ind_inf ind_gt20hrs_wk_inf ind_paid ind_gt20hrs_wk_paid ///
 > any_paid_by_sp any_paid_by_gov ///
 > any_paid_by_medicaid any_paid_by_medicare any_paid_by_state
  108. replace any_paid_by_unk=1 if (any_paid_by_sp+any_paid_by_ins+any_paid_by_ot
 > h ///
```

```
  > +any_paid_by_gov==0) & ind_paid==1
  109. local paidvars any_paid_by_sp any_paid_by_gov any_paid_by_ins any_paid_by_o
  > th ///
  > any_paid_by_unk any_paid_by_medicaid any_paid_by_medicare ///
  > any_paid_by_gov_cat_oth any_paid_by_gov_cat_unknown any_paid_by_unk
  110. keep spid any_paid* ind_gt* wave
  111.
1010duplicates drop
  112. tempfile paid`wave'
  113. save `paid`wave''
  114.
1011use "E:\nhats\data\NHATS Cleaned\op_round_1_7" if wave==`wave' & opishelp==1,
  > clear
  115. tokenize spouse daughter son otherfamily paid otherinformal
  116. drop spouse daughter son paid
  117. forvalues i=1/6 {
  118.         gen ``i''=op_relat==`i'
  119.         by spid: egen ``i''_help_ind=max(``i'')
  120.         label var ``i''_help "Has ``i'' helper"
  121.         gen ``i''hrs=op_hrswk_i if ``i''==1
  122.         by spid: egen tot_``i''hrs=total(``i''hrs) if ``i''_help_ind==1
  123.         label var tot_``i''hrs "Hours of help/week from ``i'' sources"
  124.         local ihelp `ihelp' ``i''_help_ind
  125.         local chelp `chelp' tot_``i''hrs
  126. }
  127. label var otherfamily_he "Has other family helper"
  128. label var otherinformal "Has non-family unpaid helper"
  129. label var tot_otherf "Hours of help/week from other family sources"
  130. label var tot_otheri "Hours of help/week from other unpaid sources"
  131. keep spid `chelp' `ihelp' wave
  132. duplicates drop
  133.
1012tempfile hours`wave'
  134. save `hours`wave''
  135. }
  (636 missing values generated)
  (636 real changes made, 636 to missing)
  (641 real changes made, 641 to missing)
  (0 real changes made)
  (636 missing values generated)
  note: label truncated to 80 characters
  note: label truncated to 80 characters
  note: label truncated to 80 characters
  note: label truncated to 80 characters
  note: label truncated to 80 characters
  note: label truncated to 80 characters
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000004.tmp saved


              storage   display    value
  variable name  type    format     label     variable label
  -------------------------------------------------------------------------
  op1sppayshlp   double  %12.0g     op1sppayshlp
                                              R1 HL6 SP PAYS FOR HELP
  op1govpayhlp   double  %12.0g     op1govpayhlp
                                              R1 HL6 GOVT PAYS FOR HELP
  op1inspayhlp   double  %12.0g     op1inspayhlp
                                              R1 HL6 INSUR PAYS FOR HELP
  op1othpayhlp   double  %12.0g     op1othpayhlp
                                              R1 HL6 OTHER PAYS FOR HELP
  op1payunit     double  %12.0g     op1payunit
                                              R1 HL7 PAYMENT UNIT
  op1hourlypay   double  %12.0g     op1hourlypay
                                              R1 HL7A HOURLY AMOUNT PAID
  op1weeklypay   double  %12.0g     op1weeklypay
                                              R1 HL7B WEEKLY AMOUNT PAID
```

```
  R1 HL6 SP PAYS |
       FOR HELP |      Freq.      Percent        Cum.
----------------+----------------------------------
         -8 DK |        20         0.05         0.05
         -7 RF |         4         0.01         0.06
-1 Inapplicable |    37,055        97.26        97.33
          1 Yes |       587         1.54        98.87
           2 No |       431         1.13       100.00
----------------+----------------------------------
          Total |    38,097       100.00


   R1 HL8 PROGRAM |
  PAID FOR HELPER |      Freq.      Percent        Cum.
------------------+----------------------------------
           -8 DK |        42         0.11         0.11
           -7 RF |         1         0.00         0.11
    -1 INAPPLICABLE |   37,809        99.24        99.36
       1 MEDICAID |        67         0.18        99.53
       2 MEDICARE |        58         0.15        99.69
   3 STATE PROGRAM |       90         0.24        99.92
91 OTHER (SPECIFY) |        30         0.08       100.00
------------------+----------------------------------
            Total |    38,097       100.00
```
(37,055 missing values generated)
(37,055 missing values generated)
(37,055 missing values generated)
(37,055 missing values generated)
-8 -7 -1 1 2 3 91
(37,809 missing values generated)
(37,809 missing values generated)
(37,809 missing values generated)
(37,809 missing values generated)
(37,809 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000005.tmp saved

```
    Result                            # of obs.
    -----------------------------------------
    not matched                              0
    matched                             38,097  (opmer==3)
    -----------------------------------------


    Result                            # of obs.
    -----------------------------------------
    not matched                              0
    matched                             38,097  (paidm==3)
    -----------------------------------------
```
(37,164 real changes made)
(37,112 real changes made)
(37,057 real changes made)
(37,068 real changes made)
(2 real changes made)
(37,192 real changes made)
(37,182 real changes made)
(37,214 real changes made)
(37,185 real changes made)
(37,189 real changes made)
(21,762 observations deleted)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(109 missing values generated)
(373 real changes made)
(130 real changes made)
(0 real changes made)

Duplicates in terms of all variables

```
(8,757 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000006.tmp saved
(8,244 missing values generated)
(6385 missing values generated)
(8,639 missing values generated)
(5798 missing values generated)
(9,864 missing values generated)
(7699 missing values generated)
(10,109 missing values generated)
(8526 missing values generated)
(10,738 missing values generated)
(9568 missing values generated)
(10,391 missing values generated)
(9140 missing values generated)

Duplicates in terms of all variables

(5,162 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000007.tmp saved
(1,019 missing values generated)
(1,019 real changes made, 1,019 to missing)
(1,021 real changes made, 1,021 to missing)
(0 real changes made)
(1,019 missing values generated)
note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000008.tmp saved
```

```
              storage   display   value
variable name   type    format    label        variable label
-------------------------------------------------------------------------------
op2sppayshlp   double   %12.0g    op2sppayshlp
                                                R2 HL6 SP PAYS FOR HELP
op2govpayhlp   double   %12.0g    op2govpayhlp
                                                R2 HL6 GOVT PAYS FOR HELP
op2inspayhlp   double   %12.0g    op2inspayhlp
                                                R2 HL6 INSUR PAYS FOR HELP
op2othpayhlp   double   %12.0g    op2othpayhlp
                                                R2 HL6 OTHER PAYS FOR HELP
op2payunit     double   %12.0g    op2payunit
                                                R2 HL7 PAYMENT UNIT
op2hourlypay   double   %12.0g    op2hourlypay
                                                R2 HL7A HOURLY AMOUNT PAID
op2weeklypay   double   %12.0g    op2weeklypay
                                                R2 HL7B WEEKLY AMOUNT PAID
```

```
 R2 HL6 SP PAYS |
      FOR HELP |     Freq.     Percent      Cum.
---------------+---------------------------------
-1 Inapplicable |   36,915       97.29       97.29
         1 YES |      600        1.58       98.87
          2 NO |      429        1.13      100.00
---------------+---------------------------------
         Total |   37,944      100.00
```

```
   R2 HL8 PROGRAM |
  PAID FOR HELPER |     Freq.     Percent      Cum.
-----------------+---------------------------------
           -8 DK |       46        0.12        0.12
           -7 RF |        2        0.01        0.13
  -1 Inapplicable |   37,675       99.29       99.42
       1 MEDICAID |       70        0.18       99.60
       2 MEDICARE |       47        0.12       99.73
   3 STATE PROGRAM |       85        0.22       99.95
91 OTHER (SPECIFY) |       19        0.05      100.00
-----------------+---------------------------------
           Total |   37,944      100.00
(36,915 missing values generated)
```

```
(36,915 missing values generated)
(36,915 missing values generated)
(36,915 missing values generated)
-8 -7 -1 1 2 3 91
(37,675 missing values generated)
(37,675 missing values generated)
(37,675 missing values generated)
(37,675 missing values generated)
(37,675 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000009.tmp saved
```

```
    Result                          # of obs.
    ----------------------------------------
    not matched                            0
    matched                           37,944  (opmer==3)
    ----------------------------------------

    Result                          # of obs.
    ----------------------------------------
    not matched                            0
    matched                           37,944  (paidm==3)
    ----------------------------------------
```

```
(36,995 real changes made)
(36,915 real changes made)
(36,874 real changes made)
(36,888 real changes made)
(0 real changes made)
(37,017 real changes made)
(37,012 real changes made)
(37,030 real changes made)
(37,011 real changes made)
(37,012 real changes made)
(21,526 observations deleted)
(3 missing values generated)
(3 missing values generated)
(3 missing values generated)
(3 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(81 missing values generated)
(497 real changes made)
(113 real changes made)
(74 real changes made)
```

Duplicates in terms of all variables

```
(9,808 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000a.tmp saved
(7,266 missing values generated)
(5744 missing values generated)
(7,377 missing values generated)
(4927 missing values generated)
(8,361 missing values generated)
(6489 missing values generated)
(8,490 missing values generated)
(7048 missing values generated)
(8,930 missing values generated)
(7702 missing values generated)
(8,696 missing values generated)
(7550 missing values generated)
```

Duplicates in terms of all variables

```
(4,597 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000b.tmp saved
(915 missing values generated)
(915 real changes made, 915 to missing)
(922 real changes made, 922 to missing)
(0 real changes made)
(915 missing values generated)
note: label truncated to 80 characters
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file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000c.tmp saved
```

```
                storage   display    value
variable name    type     format     label        variable label
-------------------------------------------------------------------------------
op3sppayshlp    double    %12.0g     op3sppayshlp
                                                   R3 HL6 SP PAYS FOR HELP
op3govpayhlp    double    %12.0g     op3govpayhlp
                                                   R3 HL6 GOVT PAYS FOR HELP
op3inspayhlp    double    %12.0g     op3inspayhlp
                                                   R3 HL6 INSUR PAYS FOR HELP
op3othpayhlp    double    %12.0g     op3othpayhlp
                                                   R3 HL6 OTHER PAYS FOR HELP
op3payunit      double    %12.0g     op3payunit
                                                   R3 HL7 PAYMENT UNIT
op3hourlypay    double    %12.0g     op3hourlypay
                                                   R3 HL7A HOURLY AMOUNT PAID
op3weeklypay    double    %12.0g     op3weeklypay
                                                   R3 HL7B WEEKLY AMOUNT PAID
```

```
 R3 HL6 SP PAYS |
       FOR HELP |     Freq.      Percent        Cum.
----------------+-----------------------------------
          -8 DK |         1         0.00        0.00
-1 Inapplicable |    34,805        97.37       97.37
          1 YES |       531         1.49       98.86
           2 NO |       408         1.14      100.00
----------------+-----------------------------------
          Total |    35,745       100.00
```

```
   R3 HL8 PROGRAM |
  PAID FOR HELPER |     Freq.      Percent        Cum.
------------------+-----------------------------------
            -8 DK |        43         0.12        0.12
  -1 Inapplicable |    35,494        99.30       99.42
       1 MEDICAID |        73         0.20       99.62
       2 MEDICARE |        50         0.14       99.76
   3 STATE PROGRAM |       63         0.18       99.94
91 OTHER (SPECIFY) |       22         0.06      100.00
------------------+-----------------------------------
            Total |    35,745       100.00
(34,805 missing values generated)
(34,805 missing values generated)
(34,805 missing values generated)
(34,805 missing values generated)
-8 -1 1 2 3 91
(35,494 missing values generated)
(35,494 missing values generated)
(35,494 missing values generated)
(35,494 missing values generated)
(35,494 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000d.tmp saved
```

```
    Result                         # of obs.
    -----------------------------------------
    not matched                            0
    matched                           35,745  (opmer==3)
    -----------------------------------------
```

```
     Result                          # of obs.
     -----------------------------------------
     not matched                            0
     matched                           35,745  (paidm==3)
     -----------------------------------------
(35,097 real changes made)
(34,994 real changes made)
(34,847 real changes made)
(34,827 real changes made)
(13 real changes made)
(35,240 real changes made)
(35,217 real changes made)
(35,225 real changes made)
(35,193 real changes made)
(35,213 real changes made)
(20,603 observations deleted)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(36 missing values generated)
(123 real changes made)
(37 real changes made)
(41 real changes made)


Duplicates in terms of all variables

(9,660 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000e.tmp saved
(6,368 missing values generated)
(4923 missing values generated)
(6,321 missing values generated)
(4065 missing values generated)
(7,198 missing values generated)
(5553 missing values generated)
(7,194 missing values generated)
(5831 missing values generated)
(8,044 missing values generated)
(7413 missing values generated)
(6,940 missing values generated)
(5373 missing values generated)


Duplicates in terms of all variables

(4,172 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000f.tmp saved
(700 missing values generated)
(700 real changes made, 700 to missing)
(705 real changes made, 705 to missing)
(0 real changes made)
(700 missing values generated)
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note: label truncated to 80 characters
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000g.tmp saved
```

```
                storage   display    value
variable name    type     format     label       variable label
-------------------------------------------------------------------------
op4sppayshlp    double    %12.0g     op4sppayshlp
                                                  R4 HL6 SP PAYS FOR HELP
op4govpayhlp    double    %12.0g     op4govpayhlp
                                                  R4 HL6 GOVT PAYS FOR HELP
op4inspayhlp    double    %12.0g     op4inspayhlp
                                                  R4 HL6 INSUR PAYS FOR HELP
op4othpayhlp    double    %12.0g     op4othpayhlp
                                                  R4 HL6 OTHER PAYS FOR HELP
op4payunit      double    %12.0g     op4payunit
                                                  R4 HL7 PAYMENT UNIT
op4hourlypay    double    %12.0g     op4hourlypay
                                                  R4 HL7A HOURLY AMOUNT PAID
op4weeklypay    double    %12.0g     op4weeklypay
                                                  R4 HL7B WEEKLY AMOUNT PAID
```

```
  R4 HL6 SP PAYS |
       FOR HELP |      Freq.      Percent        Cum.
----------------+----------------------------------
         -8 DK |         30        0.09         0.09
         -7 RF |          1        0.00         0.09
-1 Inapplicable |     32,108       97.25        97.34
          1 YES |        522        1.58        98.92
           2 NO |        355        1.08       100.00
----------------+----------------------------------
          Total |     33,016      100.00
```

```
    R4 HL8 PROGRAM |
    PAID FOR HELPER |      Freq.      Percent        Cum.
------------------+----------------------------------
           -8 DK |         37        0.11         0.11
-1 Inapplicable |     32,817       99.40        99.51
       1 MEDICAID |         51        0.15        99.66
       2 MEDICARE |         26        0.08        99.74
  3 STATE PROGRAM |         58        0.18        99.92
91 OTHER (SPECIFY) |        27        0.08       100.00
------------------+----------------------------------
          Total |     33,016      100.00
```
(32,108 missing values generated)
(32,108 missing values generated)
(32,108 missing values generated)
(32,108 missing values generated)
-8 -1 1 2 3 91
(32,817 missing values generated)
(32,817 missing values generated)
(32,817 missing values generated)
(32,817 missing values generated)
(32,817 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000h.tmp saved

```
    Result                        # of obs.
    ---------------------------------------------
    not matched                           0
    matched                          33,016  (opmer==3)
    ---------------------------------------------
```

```
    Result                        # of obs.
    ---------------------------------------------
    not matched                           0
    matched                          33,016  (paidm==3)
    ---------------------------------------------
```
(32,382 real changes made)
(32,257 real changes made)
(32,155 real changes made)
(32,137 real changes made)
(18 real changes made)
(32,506 real changes made)
(32,474 real changes made)
(32,506 real changes made)
(32,478 real changes made)

```
(32,490 real changes made)
(19,721 observations deleted)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(44 missing values generated)
(123 real changes made)
(49 real changes made)
(0 real changes made)


Duplicates in terms of all variables

(8,769 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000i.tmp saved
(5,439 missing values generated)
(4235 missing values generated)
(5,309 missing values generated)
(3388 missing values generated)
(6,065 missing values generated)
(4646 missing values generated)
(6,126 missing values generated)
(5020 missing values generated)
(6,679 missing values generated)
(6046 missing values generated)
(5,807 missing values generated)
(4425 missing values generated)


Duplicates in terms of all variables

(3,547 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000j.tmp saved
(758 missing values generated)
(758 real changes made, 758 to missing)
(765 real changes made, 765 to missing)
(0 real changes made)
(758 missing values generated)
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note: label truncated to 80 characters
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000k.tmp saved

              storage   display    value
variable name  type     format     label      variable label
-------------------------------------------------------------------------
op5sppayshlp   double   %12.0g     op5sppayshlp
                                              R5 HL6 SP PAYS FOR HELP
op5govpayhlp   double   %12.0g     op5govpayhlp
                                              R5 HL6 GOVT PAYS FOR HELP
op5inspayhlp   double   %12.0g     op5inspayhlp
                                              R5 HL6 INSUR PAYS FOR HELP
op5othpayhlp   double   %12.0g     op5othpayhlp
                                              R5 HL6 OTHER PAYS FOR HELP
op5payunit     double   %12.0g     op5payunit
                                              R5 HL7 PAYMENT UNIT
op5hourlypay   double   %12.0g     op5hourlypay
                                              R5 HL7A HOURLY AMOUNT PAID
op5weeklypay   double   %12.0g     op5weeklypay
                                              R5 HL7B WEEKLY AMOUNT PAID
```

```
   R5 HL6 SP PAYS |
          FOR HELP |       Freq.      Percent        Cum.
----------------+-----------------------------------------
          -8 DK |        346         0.66         0.66
          -7 RF |         66         0.13         0.79
-1 Inapplicable |     50,772        97.11        97.89
          1 YES |        764         1.46        99.36
           2 NO |        337         0.64       100.00
----------------+-----------------------------------------
          Total |     52,285       100.00

     R5 HL8 PROGRAM |
     PAID FOR HELPER |      Freq.      Percent        Cum.
-------------------+---------------------------------------
             -8 DK |         62         0.12         0.12
             -7 RF |          1         0.00         0.12
    -1 Inapplicable |     51,957        99.37        99.49
        1 MEDICAID |         91         0.17        99.67
        2 MEDICARE |         31         0.06        99.73
    3 STATE PROGRAM |        103         0.20        99.92
91 OTHER (SPECIFY) |         40         0.08       100.00
-------------------+---------------------------------------
             Total |     52,285       100.00
```

(50,772 missing values generated)
(50,915 missing values generated)
(51,008 missing values generated)
(51,033 missing values generated)
-8 -7 -1 1 2 3 91
(51,957 missing values generated)
(51,957 missing values generated)
(51,957 missing values generated)
(51,957 missing values generated)
(51,957 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000001.tmp saved

```
    Result                           # of obs.
    ---------------------------------------------
    not matched                            0
    matched                           52,285  (opmer==3)
    ---------------------------------------------

    Result                           # of obs.
    ---------------------------------------------
    not matched                            0
    matched                           52,285  (paidm==3)
    ---------------------------------------------
```

(50,556 real changes made)
(50,511 real changes made)
(50,441 real changes made)
(50,445 real changes made)
(417 real changes made)
(51,007 real changes made)
(50,991 real changes made)
(51,023 real changes made)
(50,995 real changes made)
(51,000 real changes made)
(30,975 observations deleted)
(30 missing values generated)
(38 missing values generated)
(50 missing values generated)
(52 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(123 missing values generated)
(586 real changes made)
(161 real changes made)
(119 real changes made)

Duplicates in terms of all variables

(13,370 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000m.tmp saved
(9,197 missing values generated)
(7073 missing values generated)
(9,356 missing values generated)
(6110 missing values generated)
(10,653 missing values generated)
(8207 missing values generated)
(10,777 missing values generated)
(8952 missing values generated)
(11,203 missing values generated)
(9489 missing values generated)
(10,934 missing values generated)
(9346 missing values generated)

Duplicates in terms of all variables

(6,002 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000n.tmp saved
(866 missing values generated)
(866 real changes made, 866 to missing)
(877 real changes made, 877 to missing)
(0 real changes made)
(866 missing values generated)
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note: label truncated to 80 characters
note: label truncated to 80 characters
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000o.tmp saved

```
                storage   display    value
variable name   type      format     label      variable label
-------------------------------------------------------------------------
op6sppayshlp    double    %12.0g     op6sppayshlp
                                                 R6 HL6 SP PAYS FOR HELP
op6govpayhlp    double    %12.0g     op6govpayhlp
                                                 R6 HL6 GOVT PAYS FOR HELP
op6inspayhlp    double    %12.0g     op6inspayhlp
                                                 R6 HL6 INSUR PAYS FOR HELP
op6othpayhlp    double    %12.0g     op6othpayhlp
                                                 R6 HL6 OTHER PAYS FOR HELP
op6payunit      double    %12.0g     op6payunit
                                                 R6 HL7 PAYMENT UNIT
op6hourlypay    double    %12.0g     op6hourlypay
                                                 R6 HL7A HOURLY AMOUNT PAID
op6weeklypay    double    %12.0g     op6weeklypay
                                                 R6 HL7B WEEKLY AMOUNT PAID
```

```
 R6 HL6 SP PAYS |
      FOR HELP |      Freq.     Percent        Cum.
---------------+---------------------------------
-1 Inapplicable |    49,903       97.52       97.52
         1 YES |       719        1.41       98.92
          2 NO |       552        1.08      100.00
---------------+---------------------------------
         Total |    51,174      100.00
```

```
        R6 HL8 PROGRAM |
       PAID FOR HELPER |     Freq.      Percent       Cum.
------------------+-----------------------------------------
              -8 DK |        66         0.13        0.13
              -7 RF |         1         0.00        0.13
    -1 Inapplicable |    50,859        99.38       99.52
         1 MEDICAID |        70         0.14       99.65
         2 MEDICARE |        28         0.05       99.71
    3 STATE PROGRAM |       106         0.21       99.91
91 OTHER (SPECIFY) |        44         0.09      100.00
------------------+-----------------------------------------
             Total |    51,174       100.00
```
(49,903 missing values generated)
(49,903 missing values generated)
(49,903 missing values generated)
(49,903 missing values generated)
-8 -7 -1 1 2 3 91
(50,859 missing values generated)
(50,859 missing values generated)
(50,859 missing values generated)
(50,859 missing values generated)
(50,859 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000p.tmp saved

```
    Result                          # of obs.
    -------------------------------------------
    not matched                             0
    matched                            51,174  (opmer==3)
    -------------------------------------------

    Result                          # of obs.
    -------------------------------------------
    not matched                             0
    matched                            51,174  (paidm==3)
    -------------------------------------------
```
(50,285 real changes made)
(50,136 real changes made)
(49,963 real changes made)
(49,914 real changes made)
(0 real changes made)
(50,456 real changes made)
(50,414 real changes made)
(50,476 real changes made)
(50,422 real changes made)
(50,442 real changes made)
(30,722 observations deleted)
(1 missing value generated)
(1 missing value generated)
(1 missing value generated)
(1 missing value generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(54 missing values generated)
(155 real changes made)
(67 real changes made)
(67 real changes made)

Duplicates in terms of all variables

(13,460 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000q.tmp saved
(8,472 missing values generated)
(6489 missing values generated)
(8,489 missing values generated)
(5605 missing values generated)
(9,564 missing values generated)
(7355 missing values generated)
(9,553 missing values generated)
(7805 missing values generated)
(10,636 missing values generated)
(9806 missing values generated)
(9,126 missing values generated)
(6932 missing values generated)

Duplicates in terms of all variables

(5,630 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000r.tmp saved
(746 missing values generated)
(746 real changes made, 746 to missing)
(748 real changes made, 748 to missing)
(0 real changes made)
(746 missing values generated)
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note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
note: label truncated to 80 characters
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000s.tmp saved

```
              storage   display   value
variable name   type    format    label       variable label
-------------------------------------------------------------------------------
op7sppayshlp    double  %12.0g     op7sppayshlp
                                               R7 HL6 SP PAYS FOR HELP
op7govpayhlp    double  %12.0g     op7govpayhlp
                                               R7 HL6 GOVT PAYS FOR HELP
op7inspayhlp    double  %12.0g     op7inspayhlp
                                               R7 HL6 INSUR PAYS FOR HELP
op7othpayhlp    double  %12.0g     op7othpayhlp
                                               R7 HL6 OTHER PAYS FOR HELP
op7payunit      double  %12.0g     op7payunit
                                               R7 HL7 PAYMENT UNIT
op7hourlypay    double  %12.0g     op7hourlypay
                                               R7 HL7A HOURLY AMOUNT PAID
op7weeklypay    double  %12.0g     op7weeklypay
                                               R7 HL7B WEEKLY AMOUNT PAID
```

```
 R7 HL6 SP PAYS |
       FOR HELP |     Freq.      Percent       Cum.
----------------+-----------------------------------
-1 Inapplicable |    47,944       97.72       97.72
          1 YES |       564        1.15       98.86
           2 NO |       557        1.14      100.00
----------------+-----------------------------------
          Total |    49,065      100.00
```

```
   R7 HL8 PROGRAM |
  PAID FOR HELPER |     Freq.      Percent       Cum.
------------------+-----------------------------------
            -8 DK |        38        0.08        0.08
  -1 Inapplicable |    48,795       99.45       99.53
       1 MEDICAID |        69        0.14       99.67
       2 MEDICARE |        32        0.07       99.73
  3 STATE PROGRAM |        92        0.19       99.92
91 OTHER (SPECIFY) |       39        0.08      100.00
------------------+-----------------------------------
            Total |    49,065      100.00
(47,944 missing values generated)
(47,944 missing values generated)
```

```
(47,944 missing values generated)
(47,944 missing values generated)
-8 -1 1 2 3 91
(48,795 missing values generated)
(48,795 missing values generated)
(48,795 missing values generated)
(48,795 missing values generated)
(48,795 missing values generated)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000t.tmp saved
```

```
    Result                          # of obs.
    -----------------------------------------
    not matched                            0
    matched                           49,065  (opmer==3)
    -----------------------------------------
```

```
    Result                          # of obs.
    -----------------------------------------
    not matched                            0
    matched                           49,065  (paidm==3)
    -----------------------------------------
```

```
(47,991 real changes made)
(47,958 real changes made)
(47,904 real changes made)
(47,915 real changes made)
(0 real changes made)
(48,020 real changes made)
(48,009 real changes made)
(48,039 real changes made)
(48,011 real changes made)
(48,014 real changes made)
(29,742 observations deleted)
(6 missing values generated)
(6 missing values generated)
(6 missing values generated)
(6 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(89 missing values generated)
(455 real changes made)
(122 real changes made)
(79 real changes made)
```

```
Duplicates in terms of all variables
```

```
(13,200 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000u.tmp saved
(7,232 missing values generated)
(5577 missing values generated)
(7,183 missing values generated)
(4758 missing values generated)
(8,144 missing values generated)
(6142 missing values generated)
(8,181 missing values generated)
(6705 missing values generated)
(8,532 missing values generated)
(7149 missing values generated)
(8,388 missing values generated)
(7141 missing values generated)
```

```
Duplicates in terms of all variables
```

```
(4,766 observations deleted)
file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000v.tmp saved
```

```
1013
1014foreach x in hours paid kids {
    2.          di "`x'"
    3.          use ``x'1', clear
    4.          forvalues i=2/6 {
    5.                  di "`i'"
    6.                  append using ``x'`i''
    7. }
    8.          di "`x'"
    9.          tempfile `x'
   10.          save ``x''
   11. }
  hours
  2
  3
  4
  5
  6
  hours
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000w.tmp saved
  paid
  2
  3
  4
  5
  6
  paid
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_00000x.tmp saved
  kids
  2
  3
  4
  5
  6
  kids
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_283840_000010.tmp saved

1015
1016restore

1017
1018merge 1:1 spid wave using `kids', keep(match master) gen(kidm)
  (label cs1dnumchild already defined)
  (label ho1entrstair already defined)

      Result                      # of obs.
      -----------------------------------------
      not matched                      6,312
          from master                  6,312  (kidm==1)
          from using                       0  (kidm==2)

      matched                         41,466  (kidm==3)
      -----------------------------------------

1019merge 1:1 spid wave using `hours', keep(match master) gen(hrm)

      Result                      # of obs.
      -----------------------------------------
      not matched                     16,377
          from master                 16,377  (hrm==1)
          from using                       0  (hrm==2)

      matched                         31,401  (hrm==3)
      -----------------------------------------
```

```
1020merge 1:1 spid wave using `paid', keep(match master) gen(paidm)

     Result                         # of obs.
     -----------------------------------------
     not matched                        8,650
         from master                    8,650  (paidm==1)
         from using                         0  (paidm==2)

     matched                           39,128  (paidm==3)
     -----------------------------------------

1021
1022label var aveincome "Income"

1023label var residence "Type of residence"

1024drop sr*raw ht_new pr_ad8* dem_via_proxy speaktosp date_item* date_sum* ///
  > preslast presfirst vp* presvp* date_prvp clock_scorer irecall drecall ///
  > wordrecall *65 kidm hrm paidm SP_completed deceased /*va*ser* el5 rl* */

1025
1026foreach x in eat bath toil dres {
    2.          label var adl_`x'_diff "Has difficulty while `x'ing last month"
    3.          label var adl_`x'_not "Did not `x' by self in last month"
    4. }

1027
1028foreach x in laun shop meal bank meds {
    2.          label var iadl_`x'_diff "Has difficulty while `x'ing last month"
    3.          label var iadl_`x'_not "Did not `x' in last month"
    4. }

1029label var iadl_meds_diff "Difficulty taking meds last month"

1030label var iadl_meds_not "Didn't take meds or not by self in last month"

1031label var adl_ins_diff "Difficulty moving around inside by self in last month"

1032label var adl_ins_no "Didn't move around inside by self in last month"

1033label var adl_bed_dif "Difficulty getting out of bed by self in last month"

1034label var adl_bed_no "Didn't get out of bed by self in last month"

1035label var num_helpers_cat "Categorical number of helpers"

1036label var ivw_type "Type of interview"

1037label var income_cat "Categorical income"

1038label var trfinwgt "Tracker weight"

1039label var tr2011wgt "Tracker weight (2011 cohort)"

1040label var howgetdoc "Mode of transport to regular doctor"

1041label var ivw_day "Day of interview (Assigned to 1 for all)"

1042label var ivw_month "Month of interview"
```

```
1043label var ivw_year "Year of interview"

1044label var ivw_date "Date of interview (1st of the month assigned)"

1045label var community_dwelling "Community dwelling"

1046label var marital_sd "Separated or divorced"

1047label var iadl_diff_index "Count of IADL difficulties reported (missing coded
  > as zero)"

1048label var iadl_diff_ind "Indicator of any IADL difficulty reported (missing co
  > ded as zero)"

1049label var adl_diff_index "Count of IADL difficulties reported (missing coded a
  > s zero)"

1050label var adl_diff_ind "Indicator of any IADL difficulty reported (missing cod
  > ed as zero)"

1051label var nhats_death_day "Sensitive: Day of death from NHATS (Assigned to las
  > t day of month)"

1052label var nhats_death_month "Sensitive: Month of death from NHATS"

1053label var nhats_death_year "Sensitive: Year of death from NHATS"

1054label var division "Census division"

1055label var region "Region"

1056label var ind_kids "Indicator any living children"

1057
1058rename adlcount adlcount_jenny

1059label var adlcount_j "ADL count: some/lot of difficulty or adverse consequence
  >  of unmet need"

1060rename iadlcount iadlcount_jenny

1061label var iadlcount_j "IADL count: some/lot of difficulty or adverse consequen
  > ce of unmet need"

1062
1063// 11/8/18 Making National Estimates using 2011 population (using original wei
  > ghts) Rds 1-4
1064rename anfinwgt old_anfinwgt

1065gen double anfinwgt=old_anfinwgt

1066replace anfinw=old_anfinwgt*5491440/4649902 if inrange(age,65,69) & female==0
  > & inrange(wave,1,4)
  (1,390 real changes made)

1067replace anfinw=old_anfinwgt*4087340/4097017 if inrange(age,70,74) & female==0
  > & inrange(wave,1,4)
  (2,322 real changes made)

1068replace anfinw=old_anfinwgt*3027820/3001146 if inrange(age,75,79) & female==0
  > & inrange(wave,1,4)
  (2,122 real changes made)
```

```
1069replace anfinw=old_anfinwgt*2169060/2173979 if inrange(age,80,84) & female==0
   > & inrange(wave,1,4)
   (2,039 real changes made)

1070replace anfinw=old_anfinwgt*1194880/1224397 if inrange(age,85,89) & female==0
   > & inrange(wave,1,4)
   (1,421 real changes made)

1071replace anfinw=old_anfinwgt*524540/463619 if inrange(age,90,150) & female==0 &
   >  inrange(wave,1,4)
   (876 real changes made)

1072
1073replace anfinw=old_anfinwgt*6124980/5250466 if inrange(age,65,69) & female==1
   > & inrange(wave,1,4)
   (1,622 real changes made)

1074replace anfinw=old_anfinwgt*4781940/4843444 if inrange(age,70,74) & female==1
   > & inrange(wave,1,4)
   (2,749 real changes made)

1075replace anfinw=old_anfinwgt*3886940/3878674 if inrange(age,75,79) & female==1
   > & inrange(wave,1,4)
   (2,775 real changes made)

1076replace anfinw=old_anfinwgt*3249940/3215654 if inrange(age,80,84) & female==1
   > & inrange(wave,1,4)
   (3,027 real changes made)

1077replace anfinw=old_anfinwgt*2230480/2257969 if inrange(age,85,89) & female==1
   > & inrange(wave,1,4)
   (2,458 real changes made)

1078replace anfinw=old_anfinwgt*1382160/1329677 if inrange(age,90,150) & female==1
   >  & inrange(wave,1,4)
   (2,362 real changes made)

1079
1080// Making National Estimates using 2015 population (using original weights) Rd
   > s 5-7
1081replace anfinw=old_anfinwgt*6855860/5671878 if inrange(age,65,69) & female==0
   > & inrange(wave,5,7)
   (1,033 real changes made)

1082replace anfinw=old_anfinwgt*4941100/5071147 if inrange(age,70,74) & female==0
   > & inrange(wave,5,7)
   (2,135 real changes made)

1083replace anfinw=old_anfinwgt*3367300/3524465 if inrange(age,75,79) & female==0
   > & inrange(wave,5,7)
   (1,927 real changes made)

1084replace anfinw=old_anfinwgt*2257880/2208455 if inrange(age,80,84) & female==0
   > & inrange(wave,5,7)
   (1,635 real changes made)

1085replace anfinw=old_anfinwgt*1307620/1358952 if inrange(age,85,89) & female==0
   > & inrange(wave,5,7)
   (1,266 real changes made)
```

```
1086replace anfinw=old_anfinwgt*648680/624319 if inrange(age,90,150) & female==0 &
   >  inrange(wave,5,7)
   (835 real changes made)

1087
1088replace anfinw=old_anfinwgt*7601440/6226214 if inrange(age,65,69) & female==1
   > & inrange(wave,5,7)
   (1,162 real changes made)

1089replace anfinw=old_anfinwgt*5695060/6077509 if inrange(age,70,74) & female==1
   > & inrange(wave,5,7)
   (2,524 real changes made)

1090replace anfinw=old_anfinwgt*4182460/4196832 if inrange(age,75,79) & female==1
   > & inrange(wave,5,7)
   (2,495 real changes made)

1091replace anfinw=old_anfinwgt*3165560/3137807 if inrange(age,80,84) & female==1
   > & inrange(wave,5,7)
   (2,383 real changes made)

1092replace anfinw=old_anfinwgt*2253980/2157300 if inrange(age,85,89) & female==1
   > & inrange(wave,5,7)
   (2,018 real changes made)

1093replace anfinw=old_anfinwgt*1577880/1534438 if inrange(age,90,150) & female==1
   >  & inrange(wave,5,7)
   (1,995 real changes made)

1094
1095// Making National Estimates using 2011 Population (2011 Weights) for Rds 5-7
1096rename an2011wgt old_an2011wgt

1097gen an2011wgt=old_an2011wgt
   (25,856 missing values generated)

1098replace an2011wgt=old_an2011wgt*5491440/4649902 if inrange(age,65,69) & female
   > ==0 & inrange(wave,5,7)
   (16 real changes made)

1099replace an2011wgt=old_an2011wgt*4087340/4097017 if inrange(age,70,74) & female
   > ==0 & inrange(wave,5,7)
   (1,036 real changes made)

1100replace an2011wgt=old_an2011wgt*3027820/3001146 if inrange(age,75,79) & female
   > ==0 & inrange(wave,5,7)
   (1,028 real changes made)

1101replace an2011wgt=old_an2011wgt*2169060/2173979 if inrange(age,80,84) & female
   > ==0 & inrange(wave,5,7)
   (910 real changes made)

1102replace an2011wgt=old_an2011wgt*1194880/1224397 if inrange(age,85,89) & female
   > ==0 & inrange(wave,5,7)
   (749 real changes made)

1103replace an2011wgt=old_an2011wgt*524540/463619 if inrange(age,90,150) & female=
   > =0 & inrange(wave,5,7)
   (532 real changes made)
```

```
1104
1105replace an2011wgt=old_an2011wgt*6124980/5250466 if inrange(age,65,69) & female
  > ==1 & inrange(wave,5,7)
  (20 real changes made)

1106replace an2011wgt=old_an2011wgt*4781940/4843444 if inrange(age,70,74) & female
  > ==1 & inrange(wave,5,7)
  (1,195 real changes made)

1107replace an2011wgt=old_an2011wgt*3886940/3878674 if inrange(age,75,79) & female
  > ==1 & inrange(wave,5,7)
  (1,350 real changes made)

1108replace an2011wgt=old_an2011wgt*3249940/3215654 if inrange(age,80,84) & female
  > ==1 & inrange(wave,5,7)
  (1,369 real changes made)

1109replace an2011wgt=old_an2011wgt*2230480/2257969 if inrange(age,85,89) & female
  > ==1 & inrange(wave,5,7)
  (1,285 real changes made)

1110replace an2011wgt=old_an2011wgt*1382160/1329677 if inrange(age,90,150) & femal
  > e==1 & inrange(wave,5,7)
  (1,240 real changes made)

1111
1112label var anfinwgt "Updated Analytic Weights"

1113label var an2011wgt "Updated 2011 Analytic Weight for Rds 5+"

1114
1115notes anfinwgt : r*anfinwgt0

1116notes anfinwgt : Analytic final weight, post-stratified to most recent sample
  > frame as in the technical paper

1117notes anfinwgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-7
  > header

1118notes anfinwgt : "_"

1119notes anfinwgt : Freedman, VA and BC Spillman. Making National Estimates... NH
  > ATS Technical Paper#17.

1120
1121notes an2011wgt : r*an2011wgt0

1122notes an2011wgt : Analytic final weight, post-stratified to most 2011 sample f
  > rame as in the technical paper

1123notes an2011wgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-7
  >  header

1124notes an2011wgt : "_"

1125notes an2011wgt : Freedman, VA and BC Spillman. Making National Estimates... N
  > HATS Technical Paper#17.

1126
1127notes old_anfinwgt : r*anfinwgt0
```

```
1128notes old_anfinwgt : Original analytic weight

1129notes old_anfinwgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Ste
  > p-7 header

1130notes old_anfinwgt : "_"

1131notes old_anfinwgt : Freedman, VA and BC Spillman. Making National Estimates..
  > . NHATS Technical Paper#17.

1132
1133notes old_an2011wgt : r*an2011wgt0

1134notes old_an2011wgt : Original analytic weight for 2011 sample frame

1135notes old_an2011wgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-7 header

1136notes old_an2011wgt : "_"

1137notes old_an2011wgt : Freedman, VA and BC Spillman. Making National Estimates.
  > .. NHATS Technical Paper#17.

1138
1139
1140/*Add notes for raw variables or variables that were created in earlier header
  > s*/
1141notes varstrat : r*varstrat

1142notes varunit : r*varunit

1143notes wave : "_"

1144notes wave : Wave assigned to round number

1145notes wave : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-1 head
  > er

1146notes proxy_ivw : is*resptype

1147notes proxy_ivw : Is the interview a proxy? 1=yes

1148notes proxy_ivw : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3
  >  header

1149notes age : r*dintvwrage r*ddeathage

1150notes age : Age at interview if living or death if LML

1151notes age : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 heade
  > r

1152notes female : r*dgender

1153notes female : "_"

1154notes female : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 he
  > ader

1155notes educ_hs_ind : el*higstschl
```

1156notes educ_hs_ind : Completed HS+ (includes GED)

1157notes educ_hs_ind : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step
  > -3 header

1158notes white : rl*dracehisp

1159notes white : Non-Hispanic White

1160notes white : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 hea
  > der

1161notes black : rl*dracehisp

1162notes black : Non-Hispanic Black

1163notes black : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 hea
  > der

1164notes hisp : rl*dracehisp

1165notes hisp : Any Hispanic

1166notes hisp : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 head
  > er

1167notes other_race : rl*dracehisp

1168notes other_race : Any non-White, non-Black, non-Hispanic race

1169notes other_race : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-
  > 1 header

1170notes medicaid : ip*cmedicaid

1171notes medicaid : "_"

1172notes medicaid : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3
  > header

1173notes medigap : ip*mgapmedsp

1174notes medigap : "_"

1175notes medigap : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 h
  > eader

1176notes srh_fp : hc*health

1177notes srh_fp : SR health is poor or fair (as opposed to good, v. good, or exce
  > llent)

1178notes srh_fp : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-4 he
  > ader

1179notes adl_eat_help : sc*eathelp

1180notes adl_eat_help : Help eating in the last month

1181notes adl_eat_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Ste
  > p-5 header

1182notes adl_bath_help : sc*bathhelp

1183notes adl_bath_help : Help bathing in the last month

1184notes adl_bath_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1185notes adl_toil_help : sc*toilhelp

1186notes adl_toil_help : Help toiling in the last month

1187notes adl_toil_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1188notes adl_dres_help : sc*dreshelp

1189notes adl_dres_help : Help dresing in the last month

1190notes adl_dres_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1191
1192
1193keep spid old_anfinwgt varstrat varunit wave yearsample r7status r6status r5st
  > atus r4status r3status r2status r1status ivw_type sp_ivw_yes lml_ivw_yes proxy
  > _ivw freq_go_out ///
  > help_go_out out_on_own needshelp hasdifficulty helpdiff independent homebound_
  > cat never_go_out indeplow indephigh age female race_cat education educ_hs_ind_
  > imputed_inc1 ///
  > imputed_inc2 imputed_inc3 imputed_inc4 imputed_inc5 aveincome income_cat other
  > lang white black hisp other_race whiteoth maritalstat medicaid medigap mc_part
  > d tricare ///
  > private_ltc residence livearrang livealone srh srh_fp sr_ami_ever sr_ami_new s
  > r_stroke_ever sr_stroke_new sr_cancer_ever sr_cancer_new sr_hip_ever sr_hip_ne
  > w ///
  > sr_heart_dis_ever sr_heart_dis_new sr_htn_ever sr_htn_new sr_ra_ever sr_ra_new
  > sr_osteoprs_ever sr_osteoprs_new sr_diabetes_ever sr_diabetes_new sr_lung_dis
  > _ever ///
  > sr_lung_dis_new sr_dementia_ever sr_dementia_new sr_depr_pqq1 sr_depr_pqq2 sr_
  > anx_gad1 sr_anx_gad2 sr_phq2_score sr_phq2_depressed sr_gad2_score sr_gad2_anx
  > iety ///
  > dem_3_cat dem_2_cat memory sr_numconditions1 fall_last_month adl_eat_diff adl_
  > eat_help adl_eat_not_done adl_bath_diff adl_bath_help adl_bath_not_done adl_to
  > il_diff ///
  > adl_toil_help adl_toil_not_done adl_dres_diff adl_dres_help adl_dres_not_done
  > iadl_laun_help iadl_laun_diff iadl_laun_not_done iadl_shop_help iadl_shop_diff
  > ///
  > iadl_shop_not_done iadl_meal_help iadl_meal_diff iadl_meal_not_done iadl_bank_
  > help iadl_bank_diff iadl_bank_not_done iadl_meds_help iadl_meds_diff iadl_meds
  > _not_done ///
  > ind_meds_diff ind_meds_mistake ind_meds_problem reg_doc_have reg_doc_seen reg
  > _doc_homevisit sr_hosp_ind sr_hosp_stays prim_helper_opid prim_helper_cat ///
  > tot_hrsmonth_help_i n_helpers tot_hrswk_help_i n_family_helpers ind_family_he
  > lper n_paid_helpers ind_paid_helper ind_rc_staff num_helpers_cat tot_hrsmonth_
  > paid_i ///
  > tot_hrswk_paid_i ind_no_helpers metro_ind no_acp formal_acp informal_acp acp
  > old_an2011wgt trfinwgt tr2011wgt serarmfor dresslf dresdif ntlvrmslp eatdev in
  > come_quart ///
  > placedied hospice1 hospice2 hospicelml gripsc1 walksec1 walkhndr1 gripsc2 wal
  > ksec2 walkhndr2 origwksc nhatswksc nhatsgrav nhatsgrb lst10pnds trytolose evrg
  > owalk vigoractv ///
  > unwgtloss lowphysact lowenergy oftcheer oftbored oftfol oftupset lifemean con
  > fident giveup livingsit selfdeter findway adjchg agefeel mealskip nopayhous no
  > payutil ///
  > nopaymed mealskipnum sr_skincancer_had sr_breastcancer_had sr_prostatecancer_
  > had sr_bladdercancer_had sr_crvovrnutrncancer_had sr_coloncancer_had sr_kidney
  > cancer_had ///
  > sr_othercancer_had howgetdoc ind_imp_visit ind_imp_relig ind_imp_club ind_imp
  > _goout device_out device_insd device_bed device_eat device_bath device_toil de
  > vice_dres ///
  > device_any drives avoids ind_transp_disadv get_places1 get_places2 get_places
  > 3 get_places4 get_places5 get_places6 get_places7 married marital_sep marital_

```
> div ///
>  marital_wid marital_nev marriedpartnered marital_sd resspouse hhm agecat attr
> elig imprelig visitfrfam impvisit attclub impclub vigact religvimp smokedever
> ///
>  smoke_start_age smoke_stop_age smokesnow numcigsever numcigsnow ind_pain wgt_
> curr height_ft height_in bmi moved community_dwelling nhres rcfres res_care sp
> _status ///
>  prob_dem adl_ins_help adl_ins_diff adl_ins_not_done adl_bed_help adl_bed_diff
>  adl_bed_not_done ivw_day ivw_month ivw_year adl_index adl_independent adl_imp
> air ///
>  iadl_index iadl_independent iadl_impair adl_diff_index adl_diff_ind iadl_diff
> _index iadl_diff_ind ivw_date meals_wheels noone_talk restrnt_takeout nhats_de
> ath_day ///
>  nhats_death_date nhats_death_month nhats_death_year eligible_nsoc completed_n
> soc total_caregiver_comp total_caregiver_elig adverse adverse_laun adverse_sho
> p ///
>  adverse_meal adverse_bank adverse_eat adverse_bath adverse_toil adverse_dres
> adverse_out adverse_insd adverse_bed lim_fav lim_fav_yr cohesion_knowwell cohe
> sion_willing ///
>  cohesion_peop cohesion home_disorder_insd home_disorder_outsd home_disorder_a
> rea home_disorder_clutter creditdebt medcreditdebt medbillsovertime medpaynotc
> ash finhlpfam ///
>  fingftfam govtasst ownhome rent mortgagepaidoff paysmortgage mortpaymt timein
> mort owedonmort homevalue rentpaid section8 n_social_network division region n
> ortheast ///
>  midwest south west n_children stairs_ind livesalone_ind ind_kids eat_jenny to
> il_jenny insd_jenny bed_jenny dres_jenny bath_jenny adlcount_jenny laun_jenny
> meds_jenny ///
>  shop_jenny meal_jenny bank_jenny iadlcount_jenny device_mobility spouse_help_
> ind tot_spousehrs daughter_help_ind tot_daughterhrs son_help_ind tot_sonhrs ot
> herfamily_help_ind ///
>  tot_otherfamilyhrs paid_help_ind tot_paidhrs otherinformal_help_ind tot_other
> informalhrs any_paid_by_sp any_paid_by_gov any_paid_by_ins any_paid_by_unk any
> _paid_by_oth ///
>  any_paid_by_gov_cat_1 any_paid_by_gov_cat_2 any_paid_by_gov_cat_3 any_paid_by
> _gov_cat_oth any_paid_by_gov_cat_unknown any_paid_by_medicare any_paid_by_medi
> caid any_paid_by_state ///
>  ind_gt20hrs_wk_inf ind_gt20hrs_wk_paid anfinwgt an2011wgt death_* died_12 die
> d_24 *_lml qoc_lml_e

1194
1195
1196saveold "E:\nhats\data\NHATS cleaned\sp_round_1_7", replace version(12)
  (saving in Stata 12 format, which can be read by Stata 11 or 12)
  file E:\nhats\data\NHATS cleaned\sp_round_1_7.dta saved

1197
1198gen time2d=mofd(nhats_death_date)-mofd(ivw_date)
  (39,184 missing values generated)

1199
1200foreach x in 12 24 {
  2.          gen nhats_died_`x'=time2d<=`x' if !lml
  3.          label var nhats_died_`x' "Died w/in `x' months (from NHATS)"
  4.
1201}
  (2,671 missing values generated)
  (2,671 missing values generated)

1202
1203capture log close
```