STaTa®
Statistics/Data Analysis

```
        --------------------------------------------------------------------------------
         name:  <unnamed>
          log:  E:\nhats\nhats_code\NHATS data setup\logs\6_nhats_cleaning__6_May_2
> 019.smcl
     log type:  text
    opened on:   6 May 2019, 09:58:03
```

```
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_2775ac_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. note metro_ind: Metropolitan area.

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_2775ac_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. // 5/1/2018 P01 Aldridge
37.
38. gen unmet_relg_lml=.
   (47,778 missing values generated)

39. replace unmet_relg_lml=1 if relg==2
   (994 real changes made)

40. replace unmet_relg_lml=0 if relg==1
   (945 real changes made)

41. label var unmet_relg_lml "Unmet Spiritual need, LML"

42.
43. note unmet_relg_lml: relg

44. note unmet_relg_lml: Doctors, nurses, or other health care professionals talk
   > ///
   > about religious beliefs.

45. note unmet_relg_lml: Located in NHATS Setup, under Part 7.

46. note unmet_relg_lml: Created: 5/1/19-MH
```

```
47. // 3/21/2019--Adding LM questions from LML interview section, P01 Aldridge
48.
49. gen qoc_lml_e=.
   (47,778 missing values generated)

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

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

52. note qoc_lml_e: ratecare (1=1)

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

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

55. note qoc_lml_e: Updated: 4/16/19-MH Created: 3/21/19-MH

56. label var qoc_lml_e "Quality of Care rated excellent, LML"

57. /*
   > gen qoc_lml=ratecare
   > replace qoc_lml=. if inlist(ratecare,-8,-7,-1,6)
   > */
58.
59. 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)

60. note unmet_pain_lml: pain painhlp painhlpam

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

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

63. note unmet_pain_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

64. label var unmet_pain_lml "Unmet need for pain management, LML"

65.
66. note unmet_bre_lml: bre brehlp brehlpam

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

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

69. note unmet_bre_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

70. label var unmet_bre_lml "Unmet need for dyspnea (breathing) management, LML"

71.
72. note unmet_sad_lml: sad sadhlp sadhlpam

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

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

75. note unmet_sad_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

76. label var unmet_sad_lml "Unmet need for sadness (anxiety) management, LML"

77.
78. 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)

79.
80. note respect_lml: respect

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

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

83. note respect_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

84. label var respect_lml "Not always treated with respect, LML"

85.
86. note informed_lml: informed

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

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

89. note informed_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

90. label var informed_lml "Family not informed about SP's condition, LML"

91.
92. 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)
```

```
93.
94. note caredecis_lml: caredecis

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

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

97. note caredecis_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

98. label var caredecis_lml " Inadequate input about care decisions, LML"

99.
100 note carenowan_lml: carenowan

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

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

103 note carenowan_lml: Updated: 4/16/19-MH Created: 3/21/19-MH

104 label var carenowan_lml "Care not consistent with goals, LML"

105
106 //1/28/2019-Advance Care Planning based off of Ornstein instructions
107
108 gen no_acp=0

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

110 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)

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

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

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

114 note no_acp: Created: 1/28/19-MH

115
116 gen formal_acp=0

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

118 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)

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

```
120 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.

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

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

123
124 gen informal_acp=0

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

126 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)

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

128 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.

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

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

131
132 gen acp=0

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

134 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)

135 note acp: Only in Rd2. eoltalk=1 & (poweratty=1 | livingwill=1)

136 note acp: Having ACP means having both Formal and Informal ACP.

137 note acp: Located in NHATS Setup, under Part 7.

138 note acp: Created: 1/28/19-MH

139
140
141 label var no_acp "No Advance care planning, 1=yes"

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

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

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

145 label define acp  0 "No" 1 "Yes"
```

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

147
148
149 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
```

```
150
151 // 8/10/2018 Add in 2011 weight for rd 5,6
```

```
152 rename an2011wgt0 an2011wgt

153 label var an2011wgt "2011 weights"

154 note an2011wgt: an2011wgt0

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

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

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

158
159
160 rename trfinwgt0 trfinwgt

161 rename tr2011wgt0 tr2011wgt

162
163 //Add in 7/3/18
164
165 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)

166 label var serarmfor "Served in Armed Forces"

167 sort spid wave

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

169 notes drop serarmfor
    (1 note dropped)

170 note serarmfor: serarmfor

171 note serarmfor: Served in Arm Forces variable, carried previous value to new w
  > ave. Asked in waves 1,5.

172 note serarmfor: Located in NHATS Setup, under Part 7.

173 note serarmfor: Created: 7/3/18-MH

174
175
176 //Add in 4/6/18
177 label var dresslf "Often you Dress Yourself"
```

```
178
179 label var dresdif "Difficulty when using Special Items by Self"

180
181 label var ntlvrmslp "Often had to Stay in Bed"

182
183 label var eatdev "Ever use Adapted Utensils"

184
185
186 ////// 4/2/2018--Adding in income quartile
  > sort wave

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

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

189
190 forvalues w=1/$w{
    2. drop income_quart`w'
    3. }

191
192 note income_quart: Use aveincome to create variable.

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

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

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

196
197 label var income_quart "Quartile of Income"

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

199 label values income_quart income_quart

200
201 ///// 3/26/18 --Adding in Hospice and place died variables.
  >
202 label var placedied "Place of Death"

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

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

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

206 note placedied: Place died variable from LML interview.

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

208 note placedied: Created: 3/26/18-MH
```

```
209
210 replace hospice2=. if inlist(hospice2,-1,-8)
  (39,325 real changes made, 39,325 to missing)

211 note hospice2: hospice2 variable, (.=-1,-1)

212 note hospice2: Hospice at other place, list.

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

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

215
216 rename hospcelml hospicelml

217 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)

218
219 note hospice1: hospice1 variable (0=2) (.=-1,-8)

220 note hospice1: Hospice at Nursing Home.

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

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

223
224 note hospicelml: hospicelml variable (0=2) (.=-1,-8)

225 note hospicelml: Hospice at other place, list.

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

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

228
229 label var hospice1 "Hopsice at Nursing Home"

230 label var hospice2 "Hospice Other Place"

231 label var hospicelml "Hospice Care in Last Month"

232
233
234 ///// 3/14/18 --Adding in Frailty underlying series
  >
235 //activities done twice (grip test, walk test..)
236
237 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.
```

```
238 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)

239
240 label var gripsc1 "GRP1 Display Reading"

241 label var gripsc2 "GRP2 Display Reading"

242 label var walksec1 "Secs Hld Walking Course1"

243 label var walksec2 "Secs Hld Walking Course2"

244 label var walkhndr1 "Hnrds Hld Walking Course1"

245 label var walkhndr2 "Hnrds Hld Walking Course2"

246
247 foreach y in gripsc walksec walkhndr{
    2. foreach x in 1 2{
    3. note `y'`x': `y'`x' (.=-1,-7,-8,-9)
    4.
248 if "`y'"=="gripsc"{
    5. note gripsc`x': Grip Strength `x' Reading
    6. }
    7. else if "`y'"=="walksec"{
    8. note walksec`x': Walking Course Completion in Seconds place `x' Reading
    9. }
   10. else if "`y'"=="walkhndr"{
   11. note walkhndr`x': Walking Course Completion Hundredths place `x' Reading
   12. }
   13. note `y'`x': Located in NHATS Setup, under Part 7.
   14. note `y'`x': Created: 3/14/18-MH
   15. }
   16. }

249
250
251 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)

252
```

```
253 label var origwksc "Original Walk Score"

254 label var nhatswksc "NHATS Walk Score"

255 label var nhatsgrav "NHATS Avg. Grip Score"

256 label var nhatsgrb "NHATS Best Grip Score"

257
258 foreach x in origwksc nhatswksc nhatsgrav nhatsgrb{
  2. note `x': d`x' (.=-1,-9)
  3.
259 if "`x'"=="origwksc"{
  4. note `x': Original Walk Score
  5. }
  6. else if "`x'"=="nhatswksc"{
  7. note `x': NHATS Walk Score
  8. }
  9. else if "`x'"=="nhatsgrav"{
 10. note `x': NHATS Avg Grip Score
 11. }
 12. else if "`x'"=="nhatsgrb"{
 13. note `x': NHATS Best grip Score
 14. }
 15. note `x': Located in NHATS Setup, under Part 7.
 16. note `x': Created: 3/14/18-MH
 17.
260 }

261
262 local a lst10pnds trytolose

263 local b evrgowalk vigoractv

264
265 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)

266
267
268 foreach x in `a' `b'{
  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. note `x': `x' (0=2) (1=1) (.=-1, -9)
  7. }
  (30,263 real changes made)
  (11,278 real changes made)
  (7,066 real changes made)
  (4,211 real changes made)
  (17,772 real changes made)
  (24,335 real changes made)
  (27,384 real changes made)
  (14,710 real changes made)
```

```
269
270 note lst10pnds: Lost 10 Pounds in Last Year (Y/N)

271 note trytolose: Were you trying to lose Weight (Y/N)

272 note evrgowalk: Ever go walking for exercise (Y/N)

273 note vigoractv: Ever Vigorous Activities (Y/N)

274
275 foreach x in `a' `b'{
    2. note `x': Located in NHATS Setup, under Part 7.
    3. note `x': Created: 04/05/18-MH
    4. }

276
277 label var lst10pnds "Lost 10 Pounds in Last Yr."

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

279 label var evrgowalk "Ever Go Walking for Exercise"

280 label var vigoractv "Ever Vigorous Activities"

281
282 capture drop unwgtloss lowphysact

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

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

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

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

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

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

289
290 label var unwgtloss "Unintentional Weight Loss"

291 label var lowphysact "Low Physical Activity"

292
293 note unwgtloss: Created from lst10pnds and trytolose, if lst10pnds is yes and
  > trytolose is no.

294 note unwgtloss: Unintentional Weight Loss

295 note lowphysact: Created frin evrgowalk and vigoractv, if evrgowalk is no and
  > vigoractv is no.

296 note lowphysact: Low Physical Activity
```

```
297
298 replace lowenergy=. if inlist(lowenergy, -9, -8, -7, -1)
   (5,770 real changes made, 5,770 to missing)

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

300 label var lowenergy "Low Energy in Last Month"

301
302 note lowenergy: lowenergy is (.=-9,-8,-7,-1) (0=2) (1=1)

303 note lowenergy: Low Energy in Last Month (Y/N)

304
305 foreach x in unwgtloss lowphysact lowenergy{
   2. note `x': Located in NHATS Setup, under Part 7.
   3. note `x': Created: 04/05/18-MH
   4. }

306
307 ///// 3/7/18 --Adding in Well-Being questions
  > /// Inapplicable is people who have no interview, had a proxy, or died. turned
  >  to missing.
  >
308 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)

309 drop wbq44

310
311 note wbq11: Often

312
313 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. note wbq1`i': offelche`i' (0=5) (1=4) (2=3) (3=2) (4=1) (5=-7,-8)
   9. if `i'==1{
  10. note wbq1`i': Often you feel Cheerful (wb)
  11. }
  12. else if `i'==2{
  13. note wbq1`i': Often you feel Bored (wb)
  14. }
  15. else if `i'==3{
  16. note wbq1`i': Often you feel Full of Life (wb)
  17. }
  18. else if `i'==4{
  19. note wbq1`i': Often you feel Upset (wb)
  20. }
  21. note wbq1`i': Located in NHATS Setup, under Part 7.
  22. note wbq1`i': Created: 04/05/19-MH
```

```
 23. }
(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)

314
315
316 label var wbq11 "Often you Feel Cheerful"

317 rename wbq11 oftcheer

318 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"

319 label values oftcheer oftcheer

320 label var wbq12 "Often you Feel Bored"

321 rename wbq12 oftbored

322 label values oftbored oftcheer

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

324 rename wbq13 oftfol

325 label values oftfol oftcheer

326 label var wbq14 "Often you Feel Upset"

327 rename wbq14 oftupset

328 label values oftupset oftcheer

329
330 note drop oftcheer in 1
    (1 note dropped)
```

```
331 note renumber oftcheer

332
333 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. note wbq2`i': truestme`i' (1=3) (2=2) (3=1) (4=-7,-8)
  7. if `i'==1{
  8. note wbq2`i': Life has Meaning and Purpose (wb)
  9. }
 10. else if `i'==2{
 11. note wbq2`i': I Feel Confident and Good about Myself (wb)
 12. }
 13. else if `i'==3{
 14. note wbq2`i': I gave up trying ot imporve my life a long time ago (wb)
 15. }
 16. else if `i'==4{
 17. note wbq2`i': I like my living situation very much (wb)
 18. }
 19. note wbq2`i': Located in NHATS Setup, under Part 7.
 20. note wbq2`i': Created: 04/05/18-MH
 21. }
(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)

334
335
336 label var wbq21 "Life has Meaning Purpose"

337 rename wbq21 lifemean

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

339 label values lifemean lifemean

340 label var wbq22 "Feels Confident"

341 rename wbq22 confident

342 label values confident lifemean

343 label var wbq23 "Gave up Improving Life"
```

```
344 rename wbq23 giveup

345 label values giveup lifemean

346 label var wbq24 "Likes Living Situation"

347 rename wbq24 livingsit

348 label values livingsit lifemean

349
350
351 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. note wbq4`i': truestme`i' (1=3) (2=2) (3=1) (4=-7,-8)
     7. if `i'==1{
     8. note wbq4`i': Other people determine most of what I can and cannot do (wb)
     9. }
    10. else if `i'==2{
    11. note wbq4`i': When I really want to do something, I usually find a way to d
   > o it. (wb)
    12. }
    13. else if `i'==3{
    14. note wbq4`i': I have an easy time adjusting to change.  (wb)
    15. }
    16. note wbq4`i': Located in NHATS Setup, under Part 7.
    17. note wbq4`i': Created: 04/05/18-MH
    18. }
   (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)

352
353
354 label var wbq41 "Self Determination"

355 rename wbq41 selfdeter

356 label values selfdeter lifemean

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

358 rename wbq42 findway

359 label values findway lifemean

360 label var wbq43 "Easily Adjust to Change"
```

```
361 rename wbq43 adjchg

362 label values adjchg lifemean

363
364
365 capture drop agefeel

366 egen agefeel= rowmax(ageyofeel)

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

368 label var agefeel "Age you Feel Most Times"

369
370 note agefeel: From ageyofeel

371 note agefeel: Age you feel most of the time

372 note agefeel: Located in NHATS Setup, under Part 7.

373 note agefeel: Created: 04/05/18-MH

374
375 ///// 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
376
377 local ew mealskip1 nopayhous nopayutil nopaymed

378
379 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. note `x': `x' (0=2) (1=1) (.=-9,-8,-7,-1)
  7. if "`x'"=="mealskip1"{
  8. note `x': Skip any meals b/c there was not enough food, or money to buy foo
  > d
  9. }
 10. else if "`x'"=="nopayhous"{
 11. note `x': Not enough money to pay rent or mortgage
 12. }
 13. else if "`x'"=="nopayutil"{
 14. note `x':  Not enough money to pay utility bills(gas, electric)
 15. }
 16. else if "`x'"=="nopaymed"{
 17. note `x':  Not enough money to pay medical or prescription drug bills
 18. }
 19. note `x': Located in NHATS Setup, under Part 7.
 20. note `x': Created: 04/05/18-MH
 21. }

  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)

380
381
382 label var mealskip1 "No Money, Meals Skipped"

383 label var nopayhous "No Money for Housing"

384 label var nopayutil "No Money for Utilities"

385 label var nopaymed "No Money for Medical"

386
387 label define mealskip 0 "No" 1 "Yes"

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

```
389 rename mealskip1 mealskip

390
391 gen mealskipnum=.
  (47,778 missing values generated)

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

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

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

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

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

397
398
399 label var mealskipnum "How Often Meals Skipped"

400 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"

401 label values mealskipnum mealskipnum1

402
403 note mealskipnum: mealskip2 mealskip1 (0=mealskip2 -1 & mealskip1 0) (1=4) (2=
  > 3) (3=2) (4=1)

404 note mealskipnum: How often are meals skipped

405 note mealskipnum: Located in NHATS Setup, under Part 7.

406 note mealskipnum: Created: 04/05/18-MH

407
408 ///// 12/5/17 --Adding in Cancer
 >
409 // recode hc1cancerty1 (-1 2=0) (-9 -8 =.), gen (sr_skincancer_had)
410
411 // From sensitive data, cancerty1 was from non-sensitive
412 //recode cancerty1 (-1 2=0) (-9 -8 =.), gen (sr_skincancer_had)
413 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)
```

```
414
415 replace sr_skincancer_had=cancerty1 if wave==1
   (8,245 real changes made)

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

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

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

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

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

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

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

423
424 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)
```

```
425
426 local r=1

427 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. notes `x': cancerty`r' (0=-1,2) (.=-9,-8)
    5. if "`x'"=="sr_skincancer_had"{
    6. notes `x': Had Skin Cancer
    7. }
    8. else if "`x'"=="sr_breastcancer_had"{
    9. notes `x': Had Breast Cancer
   10. }
   11. else if "`x'"=="sr_prostatecancer_had"{
   12. notes `x': Had Prostate Cancer
   13. }
   14. else if "`x'"=="sr_bladdercancer_had"{
   15. notes `x': Had Bladder Cancer
   16. }
   17. else if "`x'"=="sr_crvovrnutrncancer_had"{
   18. notes `x': Had Cervical/Ovarian/Uterine Cancer
   19. }
   20. else if "`x'"=="sr_coloncancer_had"{
   21. notes `x': Had Colon Cancer
   22. }
   23. else if "`x'"=="sr_kidneycancer_had"{
   24. notes `x': Had Kidney Cancer
   25. }
   26. else if "`x'"=="sr_othercancer_had"{
   27. notes `x': Had Other Type of Cancer
   28. }
   29. note `x': Located in NHATS Setup, under Part 7.
   30. note `x': Created: 04/05/18-MH
   31. local r=`r'+1
   32. }
(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)

428
429 label var sr_skincancer_had "Sensitive: Skin Cancer"

430 label var sr_breastcancer_had "Sensitive: Breast Cancer"
```

```
431 label var sr_prostatecancer_had "Sensitive: Prostate Cancer"

432 label var sr_bladdercancer_had "Sensitive: Bladder Cancer"

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

434 label var sr_coloncancer_had "Sensitive: Colon Cancer"

435 label var sr_kidneycancer_had "Sensitive: Kidney Cancer"

436 label var sr_othercancer_had "Sensitive: Other Cancer"

437
438 //recoding all refuse, dk, na, as missing
439 qui destring *, replace

440 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)
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(46,571 real changes made, 46,571 to missing)
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(46,571 real changes made, 46,571 to missing)
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(3,316 real changes made, 3,316 to missing)
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(5,126 real changes made, 5,126 to missing)
(9 real changes made, 9 to missing)
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(113 real changes made, 113 to missing)
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(28 real changes made, 28 to missing)
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(98 real changes made, 98 to missing)
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(35 real changes made, 35 to missing)
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(165 real changes made, 165 to missing)
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(42 real changes made, 42 to missing)
(0 real changes made)
(28 real changes made, 28 to missing)
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(42 real changes made, 42 to missing)
(0 real changes made)
(0 real changes made)
(32 real changes made, 32 to missing)
(0 real changes made)
(0 real changes made)
(122 real changes made, 122 to missing)
(0 real changes made)
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(19 real changes made, 19 to missing)
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(0 real changes made)
(60 real changes made, 60 to missing)
(114 real changes made, 114 to missing)
(18 real changes made, 18 to missing)
(142 real changes made, 142 to missing)
(0 real changes made)
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(0 real changes made)
(7,783 real changes made, 7,783 to missing)
(8,953 real changes made, 8,953 to missing)
(11,505 real changes made, 11,505 to missing)
(14,691 real changes made, 14,691 to missing)
(9,248 real changes made, 9,248 to missing)
(12,214 real changes made, 12,214 to missing)
(0 real changes made)
```

```
  (0 real changes made)
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  (0 real changes made)
  (0 real changes made)

441
442
443 //how do you get to the doctor?
444 gen howgetdoc=.
  (47,778 missing values generated)

445 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)
```

```
446 note howgetdoc: hwgtredd# used to create variable

447 note howgetdoc: How did you get a ride to the doctor; transportation method

448 note howgetdoc: Located in NHATS Setup, under Part 7.

449 note howgetdoc: Created: 04/05/18-MH

450
451 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"

452 label values howgetdoc howgetdoc

453
454
455 //note 11/14/17--add importance of activities
456 gen ind_imp_visit=.
  (47,778 missing values generated)

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

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

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

460
461 replace ind_imp_visit=inlist(impvstfam,1,2)
  (47,778 real changes made)

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

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

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

465
466 note ind_imp_visit: impvstfam (1=1,2) (0=3)

467 note ind_imp_visit: Very/somewhat important to visit friends/family in person

468 note ind_imp_relig: imprelser (1=1,2) (0=3)

469 note ind_imp_relig: Very/somewhat important to attend religious services

470 note ind_imp_club: imparclub (1=1,2) (0=3)

471 note ind_imp_club: Very/somewhat important to participate in clubs, classes, o
  > r other organized activities.

472 note ind_imp_goout: impouteny (1=1,2) (0=3)
```

```
473 note ind_imp_goout: Very/somewhat important to go out for enjoyment

474
475 foreach x in visit relig club goout{
    2. note ind_imp_`x': Located in NHATS Setup, under Part 7.
    3. note ind_imp_`x': Created: 04/05/19-MH
    4. }

476
477 label var ind_imp_visit "Very/somewhat important to visit in person with frien
  > ds/family"

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

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

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

481
482
483 foreach x in out insd bed eat bath toil dres {
    2.          gen device_`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)

484
485 label var device_out "Uses any assistive device for mobility outside"

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

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

488 label var device_eat "Uses any assistive device for eating"

489 label var device_bath "Uses any assistive device for bathing"

490 label var device_toil "Uses any assistive device for toileting"

491 label var device_dres "Uses any assistive device for dressing"

492
493 /*
  > foreach x in eat bath toil dres {
  >        gen device_`x'=.
  >        label var device_`x' "Uses assistive device for `x'ing"
  > }
  > */
494
495 foreach x in out insd bed eat bath toil dres{
    2.          replace device_`x'=d`x'devi==2 if inlist(d`x'devi,1,2)
    3.          note device_`x': d`x'devi (2=1,2); derived variable
    4.          if "`x'"=="out"{
    5.                  note device_`x': Go outside using devices
    6.          }
    7.          else if "`x'"=="insd"{
    8.                  note device_`x': Move inside with devices
    9.          }
   10.          else if "`x'"=="bed"{
   11.                  note device_`x': Device used to get out of bed
   12.          }
   13.          else if "`x'"=="eat"{
   14.                  note device_`x': Uses devices while eating
   15.          }
   16.          else if "`x'"=="bath"{
   17.                  note device_`x': Uses devices while bathing
```

```
 18.            }
 19.            else if "`x'"=="toil"{
 20.                    note device_`x': Uses devices while toileting
 21.            }
 22.            else if "`x'"=="dres"{
 23.                    note device_`x': Uses devices while dressing
 24.            }
 25.            note device_`x': Located in NHATS Setup, under Part 7.
 26.            note device_`x': Created: 04/05/18-MH
 27. }
(41,262 real changes made)
(41,867 real changes made)
(42,072 real changes made)
(44,491 real changes made)
(26,812 real changes made)
(44,371 real changes made)
(44,213 real changes made)

496
497 /*
  > foreach x in eat bath toil dres {
  >         replace device_`x'=d`x'devi==2 if inlist(d`x'devi,1,2)
  > }
  > */
498 replace device_bath=0 if dbathdevi==9
  (17,217 real changes made)

499
500
501 gen device_any=0

502 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)

503 note device_any: Derived using device_ variables. 1 is any device used.

504 note device_any: Any devices used for ADL's.

505 note device_any: Located in NHATS Setup, under Part 7.

506 note device_any: Created: 04/05/18-MH

507
508 label var device_any "Uses any assistive device for ADLs"

509
510 rename drives dtdrives //a drive flag exists in nhats

511 //making our own drive variable
512 gen drives=.
  (47,778 missing values generated)
```

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

514
515 label var drives "Drives"

516
517 note drives: oftedrive (1=1,2,3,4) (0=5)

518 note drives: Did you ever drive.

519 note drives: Located in NHATS Setup, under Part 7.

520 note drives: Created: 04/05/18-MH

521
522 gen avoids=.
  (47,778 missing values generated)

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

524
525 local avoids avoidriv1 avoidriv2 avoidriv4

526
527 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)

528
529 label var avoids "Avoids driving alone/at night/in weather*"

530
531 note avoids: oftedrive avoidriv1 avoidriv2 avoidriv4

532 note avoids: a person drives and doesn't avoid driving.

533 note avoids: Located in NHATS Setup, under Part 7.

534 note avoids: Created: 04/05/18-MH

535
536 gen miss=0

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

538
539 replace ind_transp_disadv=0 if oftedrive==. | inlist(oftedrive,5,6)
  (19,187 real changes made)
```

```
540 local probs trkpfrvis trprrelsr trprkpfgr trprgoout

541 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)

542
543 replace ind_transp_disadv=0 if !miss & missing(ind_transp_disadv)
  (0 real changes made)

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

545 label var ind_transp_disadv "Any transportation disadvantage"

546 drop miss

547
548 note ind_transp_disadv: oftedrive trkpfrvis trprrelsr trprkpfgr trprgoout

549 note ind_transp_disadv: Indicate any transportation disadvantage

550 note ind_transp_disadv: Located in NHATS Setup, under Part 7.

551 note ind_transp_disadv: Created: 04/05/18-MH

552
553 local lab1 Walked

554 local lab2 Got ride

555 local lab3 Van or shuttle provided by place of residence

556 local lab4 Van or shuttle for seniors

557 local lab5 Public transportation

558 local lab6 Taxi

559 local lab7 Other
```

```
560 local l=1

561
562 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)

563
564 replace getoplcs3=0 if !missing(getoplcs7) & missing(getoplcs3)
  (35,030 real changes made)

565 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.         note get_places`x': getoplcs`x'
    6.         note get_places`x': `lab`x'' to get to places
    7.         note get_places`x': Located in NHATS Setup, under Part 7.
    8.         note get_places`x': Created: 04/05/18-MH
    9.         local l=`l'+1
   10.
566 }
  (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)

567
568 //marital status-3 vars: married, married_or_partnered
569
570 gen married=maritalstat==1 if maritalstat!=. //married
  (5,661 missing values generated)

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

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

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

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

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

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

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

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

579
580 label var married "Married"

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

582 label var marital_sep "Separated"

583 label var marital_div "Divorced"

584 label var marital_wid "Widowed"

585 label var marital_nev "Never married"

586 notes married : martlstat

587 notes married : (Y/N)

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

589 notes married : Updated: 04/05/18-MH

590
591 foreach x in marital_sep marital_div marital_wid marital_nev marriedpartnered
  > marital_sd{
    2. notes `x': martlstat dmarstat
    3.         if "`x'"=="marital_sep"{
    4.         notes `x': Seperated, marital status.
    5.         }
    6.         if "`x'"=="marital_div"{
    7.         notes `x': Divorced, marital status.
    8.         }
    9.         if "`x'"=="marital_wid"{
   10.         notes `x': Widowed, marital status.
   11.         }
   12.         if "`x'"=="marital_nev"{
   13.         notes `x': Never Married, marital status.
   14.         }
   15.         if "`x'"=="marriedpartnered"{
   16.         notes `x': Married or Living with a partner.
   17.         }
   18.         if "`x'"=="marital_sep"{
   19.         notes `x': Seperated or Divorced, marital status.
   20.         }
   21. note `x': Located in NHATS Setup part 3 initial cleanup, part 7 final clean
  > up.
   22. note `x': Created: 04/05/18-MH
   23. }
```

```
592
593 //lives with spouse
594 gen resspouse=.
   (47,778 missing values generated)

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

596 replace resspouse=0 if marriedpart==0
   (0 real changes made)

597
598 label var resspouse "Lives with Spouse/Partner"

599 notes resspouse : livwthspo martlstat

600 notes resspouse : Living with spouse or partner (Y/N)

601 notes resspouse : Located in NHATS Setup, under Part 7.

602 notes resspouse : Updated: 04/08/19-MH

603
604 //household members
605 gen hhm=.
   (47,778 missing values generated)

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

607
608 label var hhm "Number of household members"

609 notes hhm : dhshldnum

610 notes hhm : Count of the number of household members.

611 notes hhm : Located in NHATS Setup, under Part 7.

612 notes hhm : Updated: 04/08/19-MH

613
614 //age categorical
615
616 sort spid wave

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

618 label var age "Sensitive: age"

619
620 gen agecat = .
   (47,778 missing values generated)

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

622 replace agecat=. if agecat==-1
   (0 real changes made)
```

```
623 label values agecat d2intvrage

624 label var agecat "Age, 5 yr categories"

625
626 notes agecat : d2intvrage (same)

627 notes agecat : Age cateory 65-59, 70-74, 75-79, 80-84, 85-89, 90+

628 notes agecat : Located in NHATS Setup, under Part 7.

629 notes agecat : Updated: 04/09/19-MH

630
631 //activities past month
632
633 gen attrelig=. //attend services
   (47,778 missing values generated)

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

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

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

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

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

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

640
641
642 replace attrelig=attrelser==1 if attrelser>0
   (47,778 real changes made)

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

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

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

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

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

648 //replace vigact=vigoractv==1 if vigoractv>0
649
650
```

```
651 gen religvimp=imprelig==1 if imprelig!=. //very important binary
    (5,827 missing values generated)

652
653 label var attrelig "Past mo. Attend religious services"

654 label var imprelig "Importance of religious services"

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

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

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

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

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

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

661
662 label values imprelig pa1imprelser

663 label values impvisit pa1impvstfam

664 label values impclub pa1imparclub

665
666 notes attrelig : attrelser (same)

667 notes attrelig : Ever attend religious services

668
669 notes imprelig : imprelser (same)

670 notes imprelig : How important are religious services, very, somewhat, or not
  > so important.

671
672 notes visitfrfam : visfrfam (same)

673 notes visitfrfam : Ever visit in person with friends or family, not living wit
  > h.

674
675 notes impvisit : impvstfam (same)

676 notes impvisit : How important to visit in person with friends or family not l
  > iving with.

677
678 notes impclub: imparclub

679 notes impclub: Importance of club/class/etc. participation

680
681 notes attclub : clbmtgrac (same)

682 notes attclub : Ever participate in clubs, classes, or other organized activit
  > es.
```

```
683
684 notes vigact : vigoractv (same)

685 notes vigact : Ever spend time on vigorous activites that increased heart rate
  > . ///
  > Working out, swimming, running, biking, or any sport.

686
687 notes religvimp: imprelig

688 notes religvimp: Religious services are important, binary.

689
690 foreach x in attrelig imprelig visitfrfam impvisit impclub attclub vigact reli
  > gvimp {
    2. notes `x' : Located in NHATS Setup, under Part 7.
    3. notes `x' : Updated: 04/09/19-MH
    4. }

691
692 //smokin'
693 gen smokedever=.
  (47,778 missing values generated)

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

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

696
697 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)

698
699 sort spid wave

700 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)

701 notes drop smokedever smoke_start_age smoke_stop_age
    (3 notes dropped)

702 rename smokesnow smokesnow_old

703
704 notes smokedever: smokedreg

705 notes smokedever: Only in rounds 1,5. Ever smoke cigarettes regularly.
```

```
706
707 notes smoke_start_age: agesrtsmk

708 notes smoke_start_age: How old when first smoked, age.

709
710 notes smoke_stop_age: agelstsmk

711 notes smoke_stop_age: How old when last smoked cigarettes regularly.

712
713 foreach x in smokedever smoke_start_age smoke_stop_age{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x' : Updated: 04/10/19-MH
    4. }

714
715 gen smokesnow=.
  (47,778 missing values generated)

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

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

720
721 notes drop numcigsever
    (1 note dropped)

722
723 notes numcigsever: numcigday

724 notes numcigsever: Take max if they were a non-smoker.

725
726 gen numcigsnow=.
  (47,778 missing values generated)

727
728 replace smokesnow=smokesnow_old==1 if smokesnow_old>0
  (47,778 real changes made)

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

730
731 replace smokedever=1 if smokesnow==1
  (512 real changes made)

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

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

```
734
735 notes smokesnow: smokedever

736 notes smokesnow: Smokes at this wave

737 notes smokesnow: Located in NHATS Setup, under Part 7.

738 notes smokesnow: Updated: 05/03/19-MH

739
740 label var smokedever "Ever smoked"

741 label var smokesnow "Smokes now"

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

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

744 label var smoke_start_age "Age started smoking"

745 label var smoke_stop_age "Age stopped smoking"

746
747 notes numcigsever: Located in NHATS Setup, under Part 7.

748 notes numcigsever: Updated: 04/10/19-MH

749
750 notes numcigsnow: numcigday smokesnow

751 notes numcigsnow: Number of cigarettes/day currently

752 notes numcigsnow: Located in NHATS Setup, under Part 7.

753 notes numcigsnow: Updated: 05/03/19-MH

754
755 //pain
756 gen ind_pain=.
  (47,778 missing values generated)

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

758 label var ind_pain "Bothered by pain"

759
760 notes ind_pain: painbothr

761 notes ind_pain: Have been bothered by pain in the last month.

762 //weight
763
764 gen wgt_curr=.
  (47,778 missing values generated)

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

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

767
768 replace wgt_curr=currweigh if currweigh>0
   (41,141 real changes made)

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

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

771
772 label var wgt_curr "Current weight, lbs."

773 label var height_ft "Current height, feet"

774 label var height_in "Current height, inches"

775
776 notes wgt_curr: currweigh

777 notes wgt_curr: Current Weight in pounds.

778 notes height_ft: howtallft

779 notes height_ft: How tall in feet.

780 notes height_in: howtallin

781 notes height_in: How tall in inches, after feet.

782
783 gen bmi=(wgt_curr/((height_ft*12+height_in)^2))*703
   (11,007 missing values generated)

784
785 label var bmi "Current BMI"

786
787 notes bmi: wgt_curr height_ft height_in

788 notes bmi: Body Mass Index calculation from weight and height.

789
790 foreach x in wgt_curr height_ft height_in bmi{
   2. notes `x': Located in NHATS Setup, under Part 7.
   3. notes `x': Updated: 04/10/19-MH
   4. }

791
792 //get the per round weight, cluster, and strata vars (and why is moved created
 > like that?)
793 //gen moved=.
794 rename varunit varunit
   (all newnames==oldnames)

795 rename varstrat varstrat
   (all newnames==oldnames)
```

```
796 rename anfinwgt0 anfinwgt

797
798 /*
  > 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
  > }
  > */
799 label var moved "Moved since last ivw"

800
801 *****************************************
802 /*these are taken from Rebecca's code*/
803
804 gen community_dwelling = 0

805 gen SP_completed = 0

806 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)

807 notes community_dwelling: dresid = 1,2

808 notes community_dwelling: In the community.

809
810 gen nhres=dresid==4 if dresid!=. & wave==1
  (39,533 missing values generated)

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

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

813 gen sp_status=1

814 gen deceased=0
```

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

816 label var prob_dem "Indicator probable dementia"

817
818 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)

819
820 note nhres : dresid

821 notes nhres : Resid=4,5,8, Nursing Home.

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

823
824 notes rcfres: dresid (2,3)

825 notes rcfres: Residential Care, excluding Nursing Home.

826
827 notes res_care: dresid (2-8)

828 notes res_care: Residential Care, excluding Nursing Home.

829
830 notes deceased: status 62 68

831 notes deceased: Died after round 1

832
```

```
833 notes prob_dem: dem_cat_3, sr_dementia_ever

834 notes prob_dem: Probable Dementia.

835
836 foreach x in community_dwelling rcfres res_care deceased prob_dem{
     2. notes `x': Located in NHATS Setup, under Part 7.
     3. notes `x': Updated: 04/10/19-MH
     4. }

837
838
839 replace sp_status=2 if res_care==1
   (5,953 real changes made)

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

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

842 label var sp_status "Residential status"

843 label var nhres "Nursing Home Resident"

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

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

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

847 label values sp_status sp_status

848
849 //these ADL variables were missing previously
850 gen adl_ins_help = .
   (47,778 missing values generated)

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

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

853
854 replace adl_ins_help=1 if insdhlp==1
   (5,334 real changes made)

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

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

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

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

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

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

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

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

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

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

865
866
867 *replace adl_ins_dif=1 if adl_ins_help==1
868 label var adl_ins_help "Received help getting around inside"

869 notes adl_ins_help : insdhlp

870 notes adl_ins_help : Anyone help you get arounbd inside house

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

872
873 notes adl_ins_diff: insddif

874 notes adl_ins_diff: How much difficulty getting around inside.

875 notes adl_ins_not_done: dinsdsfdf

876 notes adl_ins_not_done: Move inside by self

877 notes adl_ins_not_done:  E:\nhats\nhats\code\NHATS data setup\NHATS_Setup, ste
   > p-7 header

878
879
880 gen adl_bed_help = .
   (47,778 missing values generated)

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

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

883
884 replace adl_bed_help=1 if bedhlp==1
   (4,585 real changes made)

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

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

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

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

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

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

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

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

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

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

895
896 label var adl_bed_help "Received help getting out of bed"

897 *replace adl_bed_diff=1 if adl_bed_help==1
898 notes adl_bed_help : mo*bedhlp

899 notes adl_bed_help : "_"

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

901
902 notes adl_bed_not_done: dbedsfdf

903 notes adl_bed_not_done: Get out of bed

904 notes adl_bed_not_done: Located in NHATS Setup, under Part 7.

905 notes adl_bed_not_done: Updated: 05/03/19-MH

906
907 //construct date of ivw--use 1st of month for all, because only have mo & yr
908
909 merge 1:1 spid wave using `resttrack', keep(match) nogen

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

910 gen ivw_day=spstatdtdy
```

```
911 label define ivw_day 1 "Not provided"

912 label values ivw_day ivw_day

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

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

915 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)

916
917 replace ivw_month=r1fqstatdtmt if wave==1 & ivw_month==.
  (0 real changes made)

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

919
920
921 gen ivw_date=mdy(ivw_month,ivw_day,ivw_year)
  (2,971 missing values generated)

922 format ivw_date %td

923 label var ivw_date "Interview date from restricted tracker"
```

```
924
925 note ivw_date: ivw_month ivw_day ivw_year

926 note ivw_date: Interview date from the restricted file.

927
928 gen ivw_date_sens=mdy(ivw_month,1,ivw_year)

929 format ivw_date_sens %td

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

931
932 note ivw_date_sens: ivw_month ivw_year

933 note ivw_date_sens: Using only month and year, all dates put as first of the m
  > onth.

934
935 foreach x in ivw_date ivw_date_sens{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/10/19-MH
    4. }

936
937 /// 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*/
938 //changes made 5/20/18
939
940         replace adl_dres_help=1 if dresoft==5
  (418 real changes made)

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

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

943
944
945 gen adl_index=0

946 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)

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

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

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

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

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

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

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

955 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. }

956 label var adl_independent "Independent in ADLs"

957 label var adl_impair "Help with 1+ ADL"

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

959
960 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. }

961
962 note adl_index: adl_*_help

963 note adl_index: Number of ADL's needing helped with.

964
965 note adl_independent: adl_index =0

966 note adl_independent: No ADL help for the individual.

967
968 note adl_impair: adl_index >0

969 note adl_impair: ADl help for the individual.

970
971 note iadl_index: iadl_*_help

972 note iadl_index: Number of IADL's needing helped with.

973
974 note iadl_independent: iadl_index =0

975 note iadl_independent: No IADL help for the individual.
```

```
976
977 note iadl_impair: iadl_index >0

978 note iadl_impair: IADl help for the individual.

979
980 label var iadl_independent "Independent in IADLs"

981 label var iadl_impair "Help with 1+ IADL"

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

983
984 foreach x in adl_index adl_independent adl_impair iadl_index iadl_independent
  > iadl_impair{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/10/19-MH
    4. }

985
986 //addition of variables from Eric's homebound code
987 gen meals_wheels=.
  (47,778 missing values generated)

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

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

990
991
992 replace meals_wheels=dmealwhl
  (601 real changes made)

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

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

995 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)

996
997 notes meals_wheels: dmealwhl

998 notes meals_wheels: Helper is meals on wheels

999
1000notes noone_talk: noonetalk

1001notes noone_talk: No one to talk to

1002
1003notes restrnt_takeout: dmealtkot
```

```
1004notes restrnt_takeout: Helper is Restaurant takeout

1005
1006foreach x in meals_wheels noone_talk restrnt_takeout{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/10/19-MH
    4. }

1007
1008label var meals_wheels "Meals on wheels"

1009label var noone_talk "SP has no one to talk to"

1010label var restrnt_takeout "Received help with restaurant/takeout"

1011//pull in date of death, constructed from claims and nhats
1012merge m:1 spid using "E:\nhats\data\NHATS CMS DUA 28016\Merged\Stata\death_dat
  > e.dta", nogen

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

1013
1014gen died_12=mofd(death_date)-mofd(ivw_date)<=12

1015gen died_24=mofd(death_date)-mofd(ivw_date)<=24

1016
1017notes died_12: death_date ivw_date

1018notes died_12: death_date-ivw_date<=12

1019
1020notes died_24: death_date ivw_date

1021notes died_24: death_date-ivw_date<=24

1022
1023foreach x in died_12 died_24{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/10/19-MH
    4. }

1024
1025//note-the following has been superseded by the death date using claims
1026/*
  >
  > //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"
  > }*/
```

```
1027
1028//update 8/2/17--pulled in nhats dod to share off server
1029
1030//look at death month & year. don't have, so set date to last of month
1031gen dd=.
  (47,778 missing values generated)

1032replace pd2yrdied=pd2yrdied+2010 if pd2yrdied>0
  (998 real changes made)

1033
1034gen nhats_death_day=.
  (47,778 missing values generated)

1035forvalues 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)
```

```
1036
1037by spid, sort: egen nhats_death_date=max(dd)
   (37848 missing values generated)

1038label var nhats_death_date "Sensitive: SP death date, from NHATS (day imputed)
   > "

1039format nhats_death_date %td

1040gen nhats_death_month=month(nhats_death_date)
   (37,848 missing values generated)

1041gen nhats_death_year=year(nhats_death_date)
   (37,848 missing values generated)

1042foreach x in month year {
     2. label var nhats_death_`x' "Sensitive: SP death `x', from NHATS"
     3. }

1043
1044notes nhats_death_date: pdmthdied nhats_death_day pdwyrdied

1045notes nhats_death_date: Death date from sensitive variables.

1046notes nhats_death_date: Located in NHATS Setup, under Part 7.

1047notes nhats_death_date: Updated: 04/11/19-MH

1048
1049drop dd

1050
1051gen eligible_nsoc=fl1dnsoc==1

1052gen completed_nsoc=fl1dnsoccomp>0 if fl1dnsoccomp!=.
   (37,686 missing values generated)

1053gen total_caregiver_comp=fl1dnsoccomp if fl1dnsoccomp>0 & fl1dnsoccomp!=.
   (41,834 missing values generated)

1054gen total_caregiver_elig=fl1dnsoccnt if fl1dnsoccnt>0 & fl1dnsoccnt!=.
   (37,686 missing values generated)

1055label var eligible  "Sensitive: Eligible for NSOC interview, wave 1 tracker"

1056label var complete  "Sensitive: Completed Interview"

1057label var total_caregiver_comp "Sensitive: Total Caregivers that Completed Int
   > erstatus"

1058
1059notes eligible_nsoc: fl1dnsoc

1060notes eligible_nsoc: Eligible for NSOC

1061
1062notes completed_nsoc: fl1dnsoccomp

1063notes completed_nsoc: Had an NSOC interview.
```

```
1064
1065notes total_caregiver_comp: fl1dnsoccomp

1066notes total_caregiver_comp: Count of caregivers NSOC.

1067
1068notes total_caregiver_elig: fl1dnsoccnt

1069notes total_caregiver_elig: Count of helpers eligible NSOC.

1070
1071foreach x in eligible_nsoc completed_nsoc total_caregiver_comp total_caregiver
  > _elig{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1072
1073//adverse consequences of unmet need
1074
1075gen adverse=0

1076forvalues 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)

1077label var adverse "Any adverse consequence of unmet need (excluding mobility)

1078
1079local ha laun shop meal bank

1080local sc eat bath toil dres

1081local mo out insd bed

1082
1083forvalues w=1/$w{
    2.          foreach x in `ha' `sc' `mo'{
    3.                  capture gen adverse_`x'=0
    4.                  replace adverse_`x'=1 if `x'wout==1 & wave==`w'
    5.
1084        }
    6. }
  (71 real changes made)
  (116 real changes made)
  (153 real changes made)
  (76 real changes made)
  (21 real changes made)
  (176 real changes made)
  (369 real changes made)
  (122 real changes made)
  (507 real changes made)
  (464 real changes made)
  (205 real changes made)
  (57 real changes made)
  (95 real changes made)
  (129 real changes made)
  (59 real changes made)
  (19 real changes made)
  (109 real changes made)
  (298 real changes made)
  (94 real changes made)
  (342 real changes made)
  (375 real changes made)
  (142 real changes made)
  (35 real changes made)
  (84 real changes made)
  (95 real changes made)
  (36 real changes made)
  (6 real changes made)
  (104 real changes made)
  (273 real changes made)
  (59 real changes made)
  (285 real changes made)
  (301 real changes made)
  (139 real changes made)
  (20 real changes made)
  (63 real changes made)
  (80 real changes made)
  (42 real changes made)
  (7 real changes made)
  (94 real changes made)
  (241 real changes made)
  (63 real changes made)
  (247 real changes made)
```

```
     (232 real changes made)
     (88 real changes made)
     (49 real changes made)
     (127 real changes made)
     (176 real changes made)
     (93 real changes made)
     (34 real changes made)
     (163 real changes made)
     (383 real changes made)
     (126 real changes made)
     (468 real changes made)
     (430 real changes made)
     (165 real changes made)
     (41 real changes made)
     (112 real changes made)
     (133 real changes made)
     (65 real changes made)
     (17 real changes made)
     (160 real changes made)
     (360 real changes made)
     (111 real changes made)
     (417 real changes made)
     (366 real changes made)
     (161 real changes made)
     (40 real changes made)
     (84 real changes made)
     (122 real changes made)
     (52 real changes made)
     (14 real changes made)
     (128 real changes made)
     (290 real changes made)
     (97 real changes made)
     (371 real changes made)
     (329 real changes made)
     (137 real changes made)
1085
1086label var adverse_laun "Ever go w/o clean laundry"

1087label var adverse_shop "Ever go w/o groceries/personal items"

1088label var adverse_meal "Ever go w/o hot meal"

1089label var adverse_bank "Ever go w/o handling bills and banking matters"

1090label var adverse_eat "Ever go w/o eating"

1091label var adverse_bath "Ever go w/o showering/bath/washup"

1092label var adverse_toil "Ever go w/o using toilet"

1093label var adverse_dres "Ever go w/o getting dressed"

1094label var adverse_out "Ever go w/o going outside; stayed inside"

1095label var adverse_insd "Ever go w/o moving inside b/c unmet need"

1096label var adverse_bed "Ever go w/o leaving bed"

1097
```

1098notes adverse: launwout shopwout mealwout bankwout eatwout bathwout toilwout d
  > reswout

1099notes adverse: Ever go without doing a task from the list.

1100notes adverse_laun: launwout

1101notes adverse_laun: Ever go without clean laundry, b/c too difficult or no one
  > there to help.

1102notes adverse_shop: shopwout

1103notes adverse_shop: Ever go without groceries/personal items, b/c too difficul
  > t or no one there to help.

1104notes adverse_meal: mealwout

1105notes adverse_meal: Ever go without hot meal, b/c too difficult or no one ther
  > e to help.

1106notes adverse_bank: bankwout

1107notes adverse_bank: Ever go without handling bills and banking matters, b/c to
  > o difficult or no one there to help.

1108notes adverse_eat: eatwout

1109notes adverse_eat: Ever go without eating, b/c too difficult or no one there t
  > o help.

1110notes adverse_bath: bathwout

1111notes adverse_bath: Ever go without showering/taking a bath/washing up, b/c to
  > o difficult or no one there to help.

1112notes adverse_toil: toilwout

1113notes adverse_toil: Ever wet/soil self b/c no help or too difficult to get to
  > toilet by self.

1114notes adverse_dres: dreswout

1115notes adverse_dres: Ever go without getting dressed, b/c too difficult or no o
  > ne there to help.

1116notes adverse_out: outwout

1117notes adverse_out: Ever go without leaving home/building, b/c too difficult or
  > no one there to help.

1118notes adverse_insd: insdwout

1119notes adverse_insd: Ever go without going into any places in home/building, b/
  > c too difficult or no one there to help.

1120notes adverse_bed: bedwout

1121notes adverse_bed: Ever go without leaving your bed, b/c too difficult or no o
  > ne there to help.

```
1122
1123foreach x in adverse adverse_laun adverse_shop adverse_meal adverse_bank adver
  > se_eat ///
  > adverse_bath adverse_toil adverse_dres adverse_out adverse_insd adverse_bed{
     2. notes `x': Located in NHATS Setup, under Part 7.
     3. notes `x': Updated: 04/11/19-MH
     4. }

1124
1125//limited favorite activity
1126capture drop lim_fav

1127gen lim_fav=.
  (47,778 missing values generated)

1128
1129forvalues 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)

1130label var lim_fav "Last month ever kept from favorite activity by health/funct
  > ion"

1131
1132capture drop lim_fav_yr

1133////NEW limited favorite activity
  > gen lim_fav_yr=.
  (47,778 missing values generated)

1134forvalues 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)

1135
1136label var lim_fav_yr "Last year ever kept from favorite activity by health/fun
  > ction"

1137
1138notes lim_fav: helmfvact

1139notes lim_fav: Did health or functioning ever keep you from favorite activity,
  >  last month

1140
1141notes lim_fav_yr: helmfvact

1142notes lim_fav_yr: Did health or functioning ever keep you from favorite activi
  > ty, last year.

1143
1144 foreach x in lim_fav lim_fav_yr {
     2. notes `x': Located in NHATS Setup, under Part 7.
     3. notes `x': Updated: 04/11/19-MH
     4. }
```

```
1145
1146
1147
1148//social cohesion
1149gen cohesion_knowwell=.
   (47,778 missing values generated)

1150gen cohesion_willnghlp=.
   (47,778 missing values generated)

1151gen cohesion_peoptrstd=.
   (47,778 missing values generated)

1152
1153forvalues 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)

1154rename cohesion_willnghlp cohesion_willing

1155rename cohesion_peoptrstd cohesion_peop

1156
1157gen cohesion=(cohesion_p+cohesion_k+cohesion_w==3) ///
   > if !missing(cohesion_k) | !missing(cohesion_w) | !missing(cohesion_p)
   (5,935 missing values generated)

1158
1159label var cohesion_knowwell "People know each other well in the community"

1160label var cohesion_w "People are willing to help each other in the commmunity"

1161label var cohesion_p "People can be trusted in the community"

1162label define cohesion_ 1 "Agree a lot" 2 "Agree a little" 3 "Do not agree"

1163label values cohesion_* cohesion_
```

```
1164label var cohesion "High community cohesion (Highest on all 3 statements)"

1165
1166notes cohesion_knowwell: knowwell

1167notes cohesion_knowwell: People in the community know each other well. Agree a
  >  lot, a little, do not agree.

1168notes cohesion_willing: willinghlp

1169notes cohesion_willing: People in the community are willing to help each other
  > . Agree a lot, a little, do not agree.

1170notes cohesion_peop: peoptrstd

1171notes cohesion_peop: People in the community can be trusted. Agree a lot, a li
  > ttle, do not agree.

1172notes cohesion: knowwell willinghlp peoptrstd

1173notes cohesion: Agree a lot on all to get high community cohesion.

1174
1175 foreach x in cohesion_knowwell cohesion_willing cohesion_peop cohesion {
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1176
1177gen home_disorder_insd=.
  (47,778 missing values generated)

1178gen home_disorder_outsd=.
  (47,778 missing values generated)

1179gen home_disorder_area=.
  (47,778 missing values generated)

1180gen home_disorder_clutter=.
  (47,778 missing values generated)

1181
1182foreach 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)

1183foreach 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)

1184foreach 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)

1185foreach 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)

1186/*
  > //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'
  > }
  > */
1187        egen insd=rowtotal(condihom*), m
  (8877 missing values generated)

1188        egen outsd=rowtotal(condhome*), m
  (6069 missing values generated)

1189        egen area=rowtotal(areacond*), m
  (6056 missing values generated)

1190        egen clutter=rowtotal(clutter*), m
  (8877 missing values generated)

1191
1192
1193        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)

1194
```

```
1195notes home_disorder_outsd: condhome1 condhome2 condhome3 condhome4 condhome5 c
  > ondhome6

1196notes home_disorder_outsd: If yes to any problems, then flagged

1197notes home_disorder_area: areacond1 areacond2 areacond3 areacond4

1198notes home_disorder_area: If yes to any problems, then flagged

1199notes home_disorder_clutter: clutterr1 clutterr2

1200notes home_disorder_clutter: If yes to any problems, then flagged

1201notes home_disorder_insd: condihom1 condihom2 condihom3 condihom4 condihom5

1202notes home_disorder_insd: If yes to any problems, then flagged

1203
1204 foreach x in home_disorder_outsd home_disorder_area home_disorder_clutter hom
  > e_disorder_insd {
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1205
1206label var home_disorder_insd "Disorder in home (peelng paint, pests, brkn furn
  > iture or floorbrds, trippng hazards)"
  note: label truncated to 80 characters

1207label var home_disorder_outsd "Disorder outside (brkn windows, foundation, bri
  > cks/siding, roof, steps)"

1208label var home_disorder_clutter "Disorder in home (clutter in interview or oth
  > er rooms)"

1209label var home_disorder_area "Disorder in immed area (litter/glass/graffiti/va
  > cant houses/stores/foreclosures)"

1210
1211//rename finhlpfam finhlpfam_old
1212//rename fingftfam fingftfam_old
1213//economic well-being---look at this section for strangeness 3/1/19
1214foreach 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)
```

```
1215
1216foreach 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)

1217
1218replace creditdebt=inlist(pycredbal,2,3) | !missing(crecardeb) if ///
  >  !missing(pycredbal) | !missing(crecardeb)
  (40,518 real changes made)

1219replace medcreditdebt=credcdmed==1 if !missing(credcdmed)
  (8,071 real changes made)

1220replace medbillsovertime=medpaovtm==1 if !missing(medpaovtm)
  (40,680 real changes made)

1221replace medpaynotcash=medbillsovertime==1 | medcreditdebt==1 if !missing(medbi
  > llsovertime) | ///
  > !missing(medcreditdebt)
  (40,722 real changes made)

1222
1223gen finhlpfam_n=finhlpfam==1 if !missing(finhlpfam)
  (7,087 missing values generated)

1224gen fingftfam_n= fingftfam==1 if !missing(fingftfam)
  (7,352 missing values generated)

1225replace govtasst=progneed1==1 | progneed2==1 | progneed3==1 if !missing(progne
  > ed1) ///
  > | !missing(progneed2) | !missing(progneed3)
  (40,842 real changes made)

1226
1227
1228replace medpaynotcash=medbillsovertime==1 | medcreditdebt==1 if !missing(medbi
  > llsovertime) | !missing(medcreditdebt)
  (0 real changes made)

1229
1230label var creditdebt "Has credit card debt or does not pay off in full monthly
  > "

1231label var medpaynotcash "Has medical credit card debt or pays bills over time"

1232label var govtasst "Receives foodstamps or other food or gas/energy assistance
  > "

1233
1234notes creditdebt: pycredbal crecardeb

1235notes creditdebt: Have some balance on credit card.

1236notes medpaynotcash: credcdmed
```

```
1237notes medpaynotcash: Any amount owed on credit cards for medical care.

1238notes govtasst: progneed1 progneed2 progneed3

1239notes govtasst: Recieved food stamps, other food assistance, or gas energy ass
  > istance.

1240notes medcreditdebt: credcdmed

1241notes medcreditdebt: Any amount owed on credit cards for medial care.

1242notes medbillsovertime: medpaovtm

1243notes medbillsovertime: Have any medical bills being paid off over time.

1244 foreach x in creditdebt medpaynotcash govtasst medcreditdebt medbillsovertime
  > {
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1245
1246drop finhlpfam fingftfam

1247rename finhlpfam_n finhlpfam

1248rename fingftfam_n fingftfam

1249
1250notes finhlpfam: finhlpfam

1251notes finhlpfam: Last year, you/spouse recieve any financial help or gifts fro
  > m children/relatives; ///
  > either regulary or as needed.

1252notes fingftfam: fingftfam

1253notes fingftfam: Last year, you/spouse give any financial help or gifts to chi
  > ldren/relatives; ///
  > either regulary or as needed.

1254 foreach x in finhlpfam fingftfam{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1255
1256//home ownership
1257
1258local homevars ownhome rent mortgagepaidoff paysmortgage /*mortpaymt*/ ///
  > timeinmort owedonmort homevalue_n rentpaid section8

1259
1260foreach 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)
```

```
1261
1262label var ownhome "SP owns home"

1263label var rent "SP rents"

1264label var mortgagepaidoff "Mortgage is paid off"

1265label var mortpaymt "Mortgage payment"

1266label define mortpaymt 1 "<$250" 2 "$250-499" 3 "$500-999" 4 "$1000+"

1267label values mortpaymt mortpaymt

1268label var timeinmort "Time left in mortgage"

1269label define timeinmort 1 "5 years" 2 "10 years" 3 "Longer than 10 years"

1270label values timeinmort timeinmort

1271label var owedonmort "Amount left on mortgage"

1272label define owedonmort 1 "<$50,000" 2 "$50,000-99,999.99" 3 "$100,000+"

1273label values owedonmort owedonmort

1274label var homevalue "Home value"

1275label 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+"

1276label values homevalue_n homevalue_n

1277
1278forvalues 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.
1279tab 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)
1280
1281drop homevalue

1282rename homevalue_n homevalue

1283
1284notes ownhome: ownrentot

1285notes ownhome: Do you/spouse/partner own home (apartment/condo).

1286notes rent: ownrentot

1287notes rent: Do you/spouse/partner rent home (apartment/condo).

1288notes mortgagepaidoff: mrtpadoff

1289notes mortgagepaidoff: Is your/spouse/partner mortage paidoff.

1290notes paysmortgage: mrtpadoff

1291notes paysmortgage: Are you/spouse/partner still making mortgage payments.
```

```
1292notes mortpaymt: mthlymort

1293notes mortpaymt: How much monthly mortgage payment

1294notes owedonmort: amoutowed amtstlowe

1295notes owedonmort: Amount owed on mortgage.

1296notes homevalue: homvalamt

1297notes homevalue: What is the present value of the home. Amount if sold today.

1298notes rentpaid: rentamt

1299notes rentpaid: Rent paid each month.

1300notes section8: sec8pubsn

1301notes section8: Home in section 8 or public housing or housing for low-income
  > seniors.

1302notes timeinmort: whnpayoff

1303notes timeinmort: How much longer are you planning to be in mortgage. (5, 10,
  > 10+)

1304 foreach x in ownhome rent mortgagepaidoff paysmortgage mortpaymt owedonmort h
  > omevalue rentpaid section8 timeinmort{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/11/19-MH
    4. }

1305
1306label var rentpaid "Amount rent paid"

1307label define rentpaid 1 "<$250" 2 "250-499" 3 "500-999" 4 "$1000+"

1308label values rentpaid rentpaid

1309label var section8 "Indicator lives in Section 8 housing"

1310label var medcreditdebt "Has Medical credit card debt"

1311label var medbillsovertime "Pays Medical bills over time"

1312label var finhlpfam "Received financial help/gifts from family"

1313label var fingftfam "Provided financial help/gifts to family"

1314label var paysmortgage "Pays a mortgage"

1315gen n_social_network=.
  (47,778 missing values generated)

1316
1317replace n_social_network=dnumsn if dnumsn>=0
  (39,585 real changes made)

1318
1319label var n_social_network "Number in social network"
```

```
1320
1321gen division=.
  (47,778 missing values generated)

1322
1323replace division=dcensdiv if dcensdiv>0
  (47,777 real changes made)

1324
1325gen region=division
  (1 missing value generated)

1326recode region (1 2=1) (3 4=2) (5/7=3) (8 9=4)
  (region: 45410 changes made)

1327
1328la define region 1 "Northeast" 2 "Midwest" 3 "South" 4 "West"

1329label values region region

1330
1331capture gen northeast=0

1332capture gen midwest=0

1333capture gen south=0

1334capture gen west=0

1335
1336replace northeast=1 if region==1
  (8,357 real changes made)

1337replace midwest=1 if region==2
  (11,588 real changes made)

1338replace south=1 if region==3
  (18,751 real changes made)

1339replace west=1 if region==4
  (9,081 real changes made)

1340
1341notes division: dcensdiv

1342notes division: Census division

1343notes region: dcensdiv

1344notes region: 4 regions

1345notes n_social_network: dnumsn

1346notes n_social_network: Number in social network

1347foreach x in northeast midwest south west {
  2. notes `x': dcensdiv
  3. notes `x': `x' census division
  4. }
```

```
1348foreach x in division n_social_network northeast midwest south west region {
  2. notes `x': Located in NHATS Setup, under Part 7.
  3. notes `x': Updated: 04/11/19-MH
  4. }

1349/*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*
  > */
1350//rename round*status r*status
1351
1352svyset varunit [pw=anfinwgt], strat(varstrat)

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

1353
1354sort spid wave

1355by spid: carryforward educ*, replace
  education:   (0 real changes made)
  educ_hs_ind:  (32766 real changes made)

1356label var educ_hs_ind "Education: HS+"

1357notes drop educ*
    (3 notes dropped)

1358
1359//10/25/18--add in payer and other variables from Jenny's homebound project
1360preserve

1361/*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
  > */
1362//note--as of now, doesn't include round 7
1363forvalues 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.
1364local 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.
1365foreach 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.
1366//for iadls, reason don't do alone b/c health/function or reported difficulty
  > or went w/o
1367gen 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.
```

```
1368gen 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.
1369label var device_mobility "Uses a walker, wheelchair, or scooter inside or out
  > side"
    42.
1370keep spid wave *_jenny device_mobility `kidvars' ind_kids adlcount iadlcount
    43.
1371tempfile kids`wave'
    44. save `kids`wave''
    45.
1372use "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.
1373rename 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.
1374
1375levelsof 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.
1376foreach 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.
```

```
1377
1378by 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.
1379duplicates drop
 112. tempfile paid`wave'
 113. save `paid`wave''
 114.
1380use "E:\nhats\data\NHATS Cleaned\op_round_1_${w}" 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.
1381tempfile 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_2775ac_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_2775ac_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_2775ac_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_2775ac_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)
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file C:\Users\husaim03\AppData\Local\Temp\9\ST_2775ac_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_2775ac_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_2775ac_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_2775ac_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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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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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_2775ac_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)
note: label truncated to 80 characters
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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_2775ac_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_2775ac_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_2775ac_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_2775ac_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)
note: label truncated to 80 characters
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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_2775ac_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_2775ac_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_2775ac_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_2775ac_00000v.tmp saved

1382
1383foreach 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_2775ac_00000w.tmp saved
  paid
  2
  3
  4
  5
  6
  paid
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_2775ac_00000x.tmp saved
  kids
  2
  3
  4
  5
  6
  kids
  file C:\Users\husaim03\AppData\Local\Temp\9\ST_2775ac_000010.tmp saved

1384
1385restore
```

```
1386
1387
1388
1389merge 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)
       -----------------------------------------

1390merge 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)
       -----------------------------------------

1391merge 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)
       -----------------------------------------

1392
1393
1394notes n_children: dnumchild

1395notes n_children: Number of children

1396notes stairs_ind: entrstair

1397notes stairs_ind: Entrance you use most often, are their stairs.

1398notes livesalone_ind: dhshldnum

1399notes livesalone_ind: total number in household.

1400notes ind_kids: dnumchild n_children

1401notes ind_kids: Indicator have children

1402foreach x in eat toil insd bed dres bath {
    2. notes `x'_jenny: `x'slf (3,4) `x'dif (3,4) `x'wout (1)
    3. notes `x'_jenny: ADL if did not do or rarely do, needed help, go without do
  > ing.
    4. notes `x'_jenny: Located in NHATS Setup, under Part 7.
    5. notes `x'_jenny: Updated: 04/11/19-MH
    6. }
```

1403notes adlcount: eat_jenny toil_jenny insd_jenny bed_jenny dres_jenny bath_jenn
  > y

1404notes adlcount: count of Jenny's ADL measures

1405foreach x in laun meds shop meal bank {
    2. notes `x'_jenny: `x'reas (1,3) `x'dif (3,4) `x'wout (1)
    3. notes `x'_jenny: ADL if did not do or rarely do, needed help, go without do
  > ing.
    4. notes `x'_jenny: Located in NHATS Setup, under Part 7.
    5. notes `x'_jenny: Updated: 04/11/19-MH
    6. }

1406notes iadlcount: laun_jenny meds_jenny shop_jenny meal_jenny bank_jenny

1407notes iadlcount: count of Jenny's IADL measures

1408notes device_mobility: insdwalk outwalk insdwl outwl insdsct outsct

1409notes device_mobility: If annswered most or everytime to having mobility devic
  > e for ///
  > question indicated.

1410notes any_paid_by_medicare: paid_by_gov_cat_2 from progmpaid

1411notes any_paid_by_medicare: Medicare program paid for helper.

1412notes any_paid_by_medicaid: paid_by_gov_cat_1 from progmpaid

1413notes any_paid_by_medicaid: Medicaid program paid for helper.

1414notes any_paid_by_state: paid_by_gov_cat_3 from progmpaid

1415notes any_paid_by_state: State Program paid for helper.

1416notes any_paid_by_sp: paid_by_sp from sppayshlp

1417notes any_paid_by_sp: SP pays for help

1418notes any_paid_by_gov: paid_by_gov from govpayshlp

1419notes any_paid_by_gov: Government pays for help.

1420notes any_paid_by_ins: paid_by_ins from inspayshlp

1421notes any_paid_by_ins: Insurance pays for help.

1422notes any_paid_by_oth: paid_by_oth from othpayshlp

1423notes any_paid_by_oth: Other pays for help.

1424notes any_paid_by_unk: paid_by_sp paid_by_oth paid_by_gov paid_by_ins ///
  > paid_by_sp paid_by_oth paid_by_gov paid_by_ins

1425notes any_paid_by_unk: Unknown who pays for help.

1426notes otherfamily_help_ind: relat

1427notes otherfamily_help_ind: Other family helpers

1428notes spouse_help_ind: relat

1429notes spouse_help_ind: Spouse as helper.

1430notes daughter_help_ind: relat

1431notes daughter_help_ind: Daughter as helper

1432notes son_help_ind: relat

1433notes son_help_ind: Son as helper

1434notes daughter_help_ind: relat

1435notes daughter_help_ind: Daughter as helper

1436notes paid_help_ind: relat

1437notes paid_help_ind: Has paid helper

1438notes otherinformal: relat

1439notes otherinformal: Has other family helpers.

1440notes tot_otherfamilyhrs: hrswk

1441notes tot_otherfamilyhrs: Other family hours.

1442notes tot_otherinformalhrs: hrswk

1443notes tot_otherinformalhrs: From other unpaid sources.

1444notes any_paid_by_gov_cat_1: op*progmpaid

1445notes any_paid_by_gov_cat_1: Medicaid paid for helper.

1446notes any_paid_by_gov_cat_2: op*progmpaid

1447notes any_paid_by_gov_cat_2: Medicare paid for helper.

1448notes any_paid_by_gov_cat_3: op*progmpaid

1449notes any_paid_by_gov_cat_3: State Program paid for helper.

1450notes any_paid_by_gov_cat_oth: op*progmpaid

1451notes any_paid_by_gov_cat_oth: Other program paid for helper.

1452notes any_paid_by_gov_cat_unknown: op*progmpaid

1453notes any_paid_by_gov_cat_unknown: DK/RF, who paid for helper.

1454notes ind_gt20hrs_wk_inf: tot_hrswk_help_i

1455notes ind_gt20hrs_wk_inf: Greater than 20 hours of informal help, imputed

1456notes ind_gt20hrs_wk_paid: tot_hrswk_help_i

1457notes ind_gt20hrs_wk_paid: Greater than 20 hours of paid help, imputed

```
1458foreach x in n_children stairs_ind livesalone_ind ind_kids adlcount iadlcount
  > ///
  > device_mobility any_paid_by_medicare any_paid_by_sp any_paid_by_gov any_paid_b
  > y_ins ///
  > any_paid_by_oth any_paid_by_unk otherfamily_help_ind spouse_help_ind daughter_
  > help_ind ///
  > son_help_ind daughter_help_ind paid_help_ind otherinformal tot_otherfamilyhrs
  > ///
  > tot_otherinformalhrs any_paid_by_gov_cat_1 any_paid_by_gov_cat_2 any_paid_by_g
  > ov_cat_3 any_paid_by_gov_cat_oth ///
  > any_paid_by_gov_cat_unknown any_paid_by_medicaid any_paid_by_state ind_gt20hrs
  > _wk_inf ind_gt20hrs_wk_paid{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/12/19-MH
    4. }

1459
1460label var aveincome "Income"

1461label var residence "Type of residence"

1462drop 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* */

1463
1464foreach 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. }

1465
1466foreach 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. }

1467label var iadl_meds_diff "Difficulty taking meds last month"

1468label var iadl_meds_not "Didn't take meds or not by self in last month"

1469label var adl_ins_diff "Difficulty moving around inside by self in last month"

1470label var adl_ins_no "Didn't move around inside by self in last month"

1471label var adl_bed_dif "Difficulty getting out of bed by self in last month"

1472label var adl_bed_no "Didn't get out of bed by self in last month"

1473label var num_helpers_cat "Categorical number of helpers"

1474label var ivw_type "Type of interview"

1475label var income_cat "Categorical income"

1476label var trfinwgt "Tracker weight"

1477label var tr2011wgt "Tracker weight (2011 cohort)"

1478label var howgetdoc "Mode of transport to regular doctor"
```

```
1479label var ivw_day "Day of interview (Assigned to 1 for all)"

1480label var ivw_month "Month of interview"

1481label var ivw_year "Year of interview"

1482label var ivw_date "Date of interview (1st of the month assigned)"

1483label var community_dwelling "Community dwelling"

1484label var marital_sd "Separated or divorced"

1485label var iadl_diff_index "Count of IADL difficulties reported (missing coded
  > as zero)"

1486label var iadl_diff_ind "Indicator of any IADL difficulty reported (missing co
  > ded as zero)"

1487label var adl_diff_index "Count of IADL difficulties reported (missing coded a
  > s zero)"

1488label var adl_diff_ind "Indicator of any IADL difficulty reported (missing cod
  > ed as zero)"

1489label var nhats_death_day "Sensitive: Day of death from NHATS (Assigned to las
  > t day of month)"

1490label var nhats_death_month "Sensitive: Month of death from NHATS"

1491label var nhats_death_year "Sensitive: Year of death from NHATS"

1492label var division "Census division"

1493label var region "Region"

1494label var ind_kids "Indicator any living children"

1495
1496rename adlcount adlcount_jenny

1497label var adlcount_j "ADL count: some/lot of difficulty or adverse consequence
  >  of unmet need"

1498rename iadlcount iadlcount_jenny

1499label var iadlcount_j "IADL count: some/lot of difficulty or adverse consequen
  > ce of unmet need"

1500
1501notes adl_bed_diff: mo*beddif

1502notes adl_bed_diff: How much difficulty getting out of bed. Any difficulty fla
  > gged.

1503notes adl_ins_diff: mo*insddif

1504notes adl_ins_diff: How much difficulty getting around house. Any difficulty f
  > lagged.

1505notes adl_eat_diff: eatslfdif
```

1506notes adl_eat_diff: How much difficulty eating by yourself. Any difficulty fla
  > gged.

1507notes adl_bath_diff: sc*bathdif

1508notes adl_bath_diff: How much difficulty have bathing/showering. Any difficult
  > y flagged.

1509notes adl_toil_diff: sc*toildif

1510notes adl_toil_diff: How much difficulty using the toilet. Any difficulty flag
  > ged.

1511notes adl_dres_diff: sc*dresdif

1512notes adl_dres_diff: How much difficulty getting dressed. Any difficulty flagg
  > ed.

1513notes iadl_laun_diff: ha*laundif

1514notes iadl_laun_diff: How much difficulty doing laundry. Any difficulty flagge
  > d.

1515notes iadl_shop_diff: ha*shopdif

1516notes iadl_shop_diff: How much difficulty doing shop. Any difficulty flagged.

1517notes iadl_meal_diff: ha*dmealdif

1518notes iadl_meal_diff: How much difficulty shopping for groceries or personal i
  > tems. Any difficulty flagged.

1519notes iadl_bank_diff: ha*bankdif

1520notes iadl_bank_diff: How much difficulty doing banking and handling bills. An
  > y difficulty flagged.

1521notes iadl_meds_diff: mc*medsdif

1522notes iadl_meds_diff: How much difficulty keeping track of meds. Any difficult
  > y flagged.

1523notes adl_diff_index: adl*index

1524notes adl_diff_index: Count of ADL difficulties. Missing is zero.

1525notes adl_diff_ind: adl_diff_index

1526notes adl_diff_ind: Indicator of any ADL difficulty reported. Missing is zero.

1527notes iadl_diff_index: iadl*index

1528notes iadl_diff_index: Count of IADL difficulties. Missing is zero.

1529notes iadl_diff_ind: iadl_diff_index

1530notes iadl_diff_ind: Indicator of any IADL difficulty reported. Missing is zer
  > o.

1531notes ind_meds_diff: medsdif meds dmedsrea medstrk

```
1532notes ind_meds_diff: Any difficulty keping track of meds

1533notes ind_meds_mistake: medsmis

1534notes ind_meds_mistake: Mistake taking meds.

1535notes ind_meds_problem: ind_meds_diff ind_meds_mistake

1536notes ind_meds_problem: Keeping track of or mistake taking meds.

1537
1538foreach x in adl_bed_diff adl_ins_diff adl_eat_diff adl_bath_diff adl_toil_dif
  > f adl_dres_diff ///
  > iadl_laun_diff iadl_shop_diff iadl_meal_diff iadl_bank_diff iadl_meds_diff adl
  > _diff_index ///
  > adl_diff_ind iadl_diff_index iadl_diff_ind {
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 04/12/19-MH
    4. }

1539
1540// 11/8/18 Making National Estimates using 2011 population (using original wei
  > ghts) Rds 1-4
1541rename anfinwgt old_anfinwgt

1542gen double anfinwgt=old_anfinwgt

1543replace anfinw=old_anfinwgt*5491440/4649902 if inrange(age,65,69) & female==0
  > & inrange(wave,1,4)
  (1,390 real changes made)

1544replace anfinw=old_anfinwgt*4087340/4097017 if inrange(age,70,74) & female==0
  > & inrange(wave,1,4)
  (2,322 real changes made)

1545replace anfinw=old_anfinwgt*3027820/3001146 if inrange(age,75,79) & female==0
  > & inrange(wave,1,4)
  (2,122 real changes made)

1546replace anfinw=old_anfinwgt*2169060/2173979 if inrange(age,80,84) & female==0
  > & inrange(wave,1,4)
  (2,039 real changes made)

1547replace anfinw=old_anfinwgt*1194880/1224397 if inrange(age,85,89) & female==0
  > & inrange(wave,1,4)
  (1,421 real changes made)

1548replace anfinw=old_anfinwgt*524540/463619 if inrange(age,90,150) & female==0 &
  >  inrange(wave,1,4)
  (876 real changes made)

1549
1550replace anfinw=old_anfinwgt*6124980/5250466 if inrange(age,65,69) & female==1
  > & inrange(wave,1,4)
  (1,622 real changes made)

1551replace anfinw=old_anfinwgt*4781940/4843444 if inrange(age,70,74) & female==1
  > & inrange(wave,1,4)
  (2,749 real changes made)
```

```
1552replace anfinw=old_anfinwgt*3886940/3878674 if inrange(age,75,79) & female==1
  > & inrange(wave,1,4)
   (2,775 real changes made)

1553replace anfinw=old_anfinwgt*3249940/3215654 if inrange(age,80,84) & female==1
  > & inrange(wave,1,4)
   (3,027 real changes made)

1554replace anfinw=old_anfinwgt*2230480/2257969 if inrange(age,85,89) & female==1
  > & inrange(wave,1,4)
   (2,458 real changes made)

1555replace anfinw=old_anfinwgt*1382160/1329677 if inrange(age,90,150) & female==1
  >  & inrange(wave,1,4)
   (2,362 real changes made)

1556
1557// Making National Estimates using 2015 population (using original weights) Rd
  > s 5-7
1558replace anfinw=old_anfinwgt*6855860/5671878 if inrange(age,65,69) & female==0
  > & inrange(wave,5,7)
   (1,033 real changes made)

1559replace anfinw=old_anfinwgt*4941100/5071147 if inrange(age,70,74) & female==0
  > & inrange(wave,5,7)
   (2,135 real changes made)

1560replace anfinw=old_anfinwgt*3367300/3524465 if inrange(age,75,79) & female==0
  > & inrange(wave,5,7)
   (1,927 real changes made)

1561replace anfinw=old_anfinwgt*2257880/2208455 if inrange(age,80,84) & female==0
  > & inrange(wave,5,7)
   (1,635 real changes made)

1562replace anfinw=old_anfinwgt*1307620/1358952 if inrange(age,85,89) & female==0
  > & inrange(wave,5,7)
   (1,266 real changes made)

1563replace anfinw=old_anfinwgt*648680/624319 if inrange(age,90,150) & female==0 &
  >  inrange(wave,5,7)
   (835 real changes made)

1564
1565replace anfinw=old_anfinwgt*7601440/6226214 if inrange(age,65,69) & female==1
  > & inrange(wave,5,7)
   (1,162 real changes made)

1566replace anfinw=old_anfinwgt*5695060/6077509 if inrange(age,70,74) & female==1
  > & inrange(wave,5,7)
   (2,524 real changes made)

1567replace anfinw=old_anfinwgt*4182460/4196832 if inrange(age,75,79) & female==1
  > & inrange(wave,5,7)
   (2,495 real changes made)

1568replace anfinw=old_anfinwgt*3165560/3137807 if inrange(age,80,84) & female==1
  > & inrange(wave,5,7)
   (2,383 real changes made)
```

```
1569replace anfinw=old_anfinwgt*2253980/2157300 if inrange(age,85,89) & female==1
  > & inrange(wave,5,7)
  (2,018 real changes made)

1570replace anfinw=old_anfinwgt*1577880/1534438 if inrange(age,90,150) & female==1
  >  & inrange(wave,5,7)
  (1,995 real changes made)

1571
1572// Making National Estimates using 2011 Population (2011 Weights) for Rds 5-7
1573rename an2011wgt old_an2011wgt

1574gen an2011wgt=old_an2011wgt
  (25,856 missing values generated)

1575replace an2011wgt=old_an2011wgt*5491440/4649902 if inrange(age,65,69) & female
  > ==0 & inrange(wave,5,7)
  (16 real changes made)

1576replace an2011wgt=old_an2011wgt*4087340/4097017 if inrange(age,70,74) & female
  > ==0 & inrange(wave,5,7)
  (1,036 real changes made)

1577replace an2011wgt=old_an2011wgt*3027820/3001146 if inrange(age,75,79) & female
  > ==0 & inrange(wave,5,7)
  (1,028 real changes made)

1578replace an2011wgt=old_an2011wgt*2169060/2173979 if inrange(age,80,84) & female
  > ==0 & inrange(wave,5,7)
  (910 real changes made)

1579replace an2011wgt=old_an2011wgt*1194880/1224397 if inrange(age,85,89) & female
  > ==0 & inrange(wave,5,7)
  (749 real changes made)

1580replace an2011wgt=old_an2011wgt*524540/463619 if inrange(age,90,150) & female=
  > =0 & inrange(wave,5,7)
  (532 real changes made)

1581
1582replace an2011wgt=old_an2011wgt*6124980/5250466 if inrange(age,65,69) & female
  > ==1 & inrange(wave,5,7)
  (20 real changes made)

1583replace an2011wgt=old_an2011wgt*4781940/4843444 if inrange(age,70,74) & female
  > ==1 & inrange(wave,5,7)
  (1,195 real changes made)

1584replace an2011wgt=old_an2011wgt*3886940/3878674 if inrange(age,75,79) & female
  > ==1 & inrange(wave,5,7)
  (1,350 real changes made)

1585replace an2011wgt=old_an2011wgt*3249940/3215654 if inrange(age,80,84) & female
  > ==1 & inrange(wave,5,7)
  (1,369 real changes made)

1586replace an2011wgt=old_an2011wgt*2230480/2257969 if inrange(age,85,89) & female
  > ==1 & inrange(wave,5,7)
  (1,285 real changes made)
```

```
1587replace an2011wgt=old_an2011wgt*1382160/1329677 if inrange(age,90,150) & femal
  > e==1 & inrange(wave,5,7)
  (1,240 real changes made)

1588
1589label var anfinwgt "Updated Analytic Weights"

1590label var an2011wgt "Updated 2011 Analytic Weight for Rds 5+"

1591
1592notes anfinwgt : r*anfinwgt0

1593notes anfinwgt : Analytic final weight, post-stratified to most recent sample
  > frame as in the technical paper

1594notes anfinwgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-7
  > header

1595notes anfinwgt : "_"

1596notes anfinwgt : Freedman, VA and BC Spillman. Making National Estimates... NH
  > ATS Technical Paper#17.

1597
1598notes an2011wgt : r*an2011wgt0

1599notes an2011wgt : Analytic final weight, post-stratified to most 2011 sample f
  > rame as in the technical paper

1600notes an2011wgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-7
  >  header

1601notes an2011wgt : "_"

1602notes an2011wgt : Freedman, VA and BC Spillman. Making National Estimates... N
  > HATS Technical Paper#17.

1603
1604notes old_anfinwgt : r*anfinwgt0

1605notes old_anfinwgt : Original analytic weight

1606notes old_anfinwgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Ste
  > p-7 header

1607notes old_anfinwgt : "_"

1608notes old_anfinwgt : Freedman, VA and BC Spillman. Making National Estimates..
  > . NHATS Technical Paper#17.

1609
1610notes old_an2011wgt : r*an2011wgt0

1611notes old_an2011wgt : Original analytic weight for 2011 sample frame

1612notes old_an2011wgt : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-7 header

1613notes old_an2011wgt : "_"
```

1614notes old_an2011wgt : Freedman, VA and BC Spillman. Making National Estimates.
  > .. NHATS Technical Paper#17.

1615
1616
1617/*Add notes for raw variables or variables that were created in earlier header
  > s*/
1618notes varstrat : r*varstrat

1619notes varstrat: Stratified sampling

1620notes varunit : r*varunit

1621notes wave : "_"

1622notes wave : Wave assigned to round number

1623notes wave : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-1 head
  > er

1624notes proxy_ivw : is*resptype

1625notes proxy_ivw : Is the interview a proxy? 1=yes

1626notes proxy_ivw : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3
  > header

1627notes age : r*dintvwrage r*ddeathage

1628notes age : Age at interview if living or death if LML

1629notes age : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 heade
  > r

1630notes educ_hs_ind : el*higstschl

1631notes educ_hs_ind : Completed HS+ (includes GED)

1632notes educ_hs_ind : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step
  > -3 header

1633notes white : rl*dracehisp

1634notes white : Non-Hispanic White

1635notes white : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 hea
  > der

1636notes black : rl*dracehisp

1637notes black : Non-Hispanic Black

1638notes black : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 hea
  > der

1639notes hisp : rl*dracehisp

1640notes hisp : Any Hispanic

1641notes hisp : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 head
  > er

1642notes other_race : rl*dracehisp

1643notes other_race : Any non-White, non-Black, non-Hispanic race

1644notes other_race : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-
  > 1 header

1645notes medicaid : ip*cmedicaid

1646notes medicaid : "_"

1647notes medicaid : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3
  > header

1648notes medigap : ip*mgapmedsp

1649notes medigap : "_"

1650notes medigap : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-3 h
  > eader

1651notes srh_fp : hc*health

1652notes srh_fp : SR health is poor or fair (as opposed to good, v. good, or exce
  > llent)

1653notes srh_fp : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Step-4 he
  > ader

1654notes adl_eat_help : sc*eathelp

1655notes adl_eat_help : Help eating in the last month

1656notes adl_eat_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, Ste
  > p-5 header

1657notes adl_bath_help : sc*bathhelp

1658notes adl_bath_help : Help bathing in the last month

1659notes adl_bath_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1660notes adl_toil_help : sc*toilhelp

1661notes adl_toil_help : Help toiling in the last month

1662notes adl_toil_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1663notes adl_dres_help : sc*dreshelp

1664notes adl_dres_help : Help dresing in the last month

1665notes adl_dres_help : E:\nhats\nhats_code\NHATS_data_setup\NHATS_Setup.otl, St
  > ep-5 header

1666notes fall_last_month: fllsinmth

1667notes fall_last_month: Fallen down in last month.

1668notes fall_last_month: Located in NHATS Setup, under Part 5.

1669notes fall_last_month: Updated: 04/17/19-MH

1670notes adl_eat_not_done: eatslfoft

1671foreach x in bath toil dres{
    2. notes adl_`x'_not_done: `x'oft
    3. }

1672foreach x in eat bath toil {
    2. notes adl_`x'_not_done: How often `x' by self and without help.
    3. }

1673notes adl_dres_not_done: How often you dress.

1674foreach x in eat bath toil dres{
    2. notes adl_`x'_not_done: Located in NHATS Setup, under Part 5.
    3. notes adl_`x'_not_done: Updated: 04/17/19-MH
    4. }

1675foreach x in laun shop meal bank{
    2. notes iadl_`x'_help: d`x'sfdf d`x'reas
    3. notes iadl_`x'_help: `x' difficulty level and if `x' done by others
    4. notes iadl_`x'_help: Located in NHATS Setup, under Part 5.
    5. notes iadl_`x'_help: Updated: 04/17/19-MH
    6. notes iadl_`x'_not_done: ha*`x'
    7. notes iadl_`x'_not_done: How `x' made/completed.
    8. notes iadl_`x'_not_done: Located in NHATS Setup, under Part 5.
    9. notes iadl_`x'_not_done: Updated: 04/17/19-MH
   10. }

1676notes iadl_meds_help: dmedssfdf dmedsreas

1677notes iadl_meds_help: Difficulty level of medications, medicine reason with ot
  > hers.

1678notes iadl_meds_diff: medsdif

1679notes iadl_meds_diff: Difficulty in keeping track of medicines.

1680notes iadl_meds_not_done: dmedssfdf

1681notes iadl_meds_not_done: Difficulty level of medications

1682foreach x in help diff not_done{
    2. notes iadl_meds_`x': Located in NHATS Setup, under Part 5.
    3. notes iadl_meds_`x': Updated: 04/17/19-MH
    4. }

1683notes reg_doc_have: haveregdoc

1684notes reg_doc_have: Do you have a go to doctor, who you go to for advice.

1685notes reg_doc_seen: regdoclyr

1686notes reg_doc_seen: Have you seen your regular doctor within the last year.

1687notes reg_doc_homevisit: hwgtregd8

```
1688notes reg_doc_homevisit: Was doctor visit a home visit.

1689foreach x in reg_doc_have reg_doc_seen reg_doc_homevisit{
    2. notes `x': Located in NHATS Setup, under Part 5.
    3. notes `x': Updated: 04/17/19-MH
    4. }

1690notes sr_hosp_ind: hosptstay

1691notes sr_hosp_ind: Had an overnight hospital stay since last interview/year.

1692notes sr_hosp_stays: hosovrnht hosptstay

1693notes  sr_hosp_stays: How many seperate overnight hospital stays.

1694foreach x in sr_hosp_ind sr_hosp_stay{
    2. notes `x': Located in NHATS Setup, under Part 5.
    3. notes `x': Updated: 04/17/19-MH
    4. }

1695foreach x in female race_cat education income_cat ///
  > otherlang imputed_inc1 imputed_inc2 imputed_inc3 imputed_inc4 imputed_inc5 ave
  > income{
    2. notes drop `x'
    3. }
    (1 note dropped)
    (1 note dropped)
    (0 notes dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)
    (1 note dropped)

1696notes female: dgender

1697notes female: Gender variable only asked in wave 1 & 5.

1698notes race_cat: dracehisp

1699notes race_cat: Race and Hispanic ethnicity only asked in wave 1 & 5.

1700notes education: higstschl

1701notes education: Highest degree/ level of schooling only asked in wave 1 & 5.

1702notes educ_hs_ind: higstschl

1703notes educ_hs_ind: Indicator having HS+

1704forvalues i=1/5{
    2. notes imputed_inc`i': toincim`i'
    3. notes imputed_inc`i': Imputed income
    4. notes imputed_inc`i': Located in NHATS Setup, under Part 3.
    5. notes imputed_inc`i': Updated: 04/18/19-MH
    6. }
```

1705notes aveincome: imputed_inc1-imputed_inc5

1706notes aveincome: Took mean of imputed income. Not done for wave 2.

1707notes income_cat: aveincome imputed_inc1-imputed_inc5

1708notes income_cat: Make income categories.

1709notes otherlang: spkothlan condspanh

1710notes otherlang: Speak other language than English; Interview being conducted
  > in Spanish.

1711notes freq_go_out: outoft

1712notes freq_go_out: How often went outside.

1713notes help_go_out: outhlp

1714notes help_go_out: Anyone help you go outside.

1715notes out_on_own: outoft outhlp

1716notes out_on_own: Left home by self.

1717notes needshelp: help_go_out out_on_own

1718notes needshelp: Leaves home with help if never leaves by self and has help to
  > leave.

1719notes hasdifficulty: outdif

1720notes hasdifficulty: How much difficulty to go outside (even with devices)

1721notes helpdiff: help_go_out out_on_own outdif

1722notes helpdiff: Has difficulty or needs help going outside.

1723notes independent: outhlp outdif

1724notes independent: Doesn't have difficulty and no help to leave home.

1725notes homebound_cat: outoft outoft outhlp help_go_out out_on_own outdif

1726notes homebound_cat: homebound categorical variable.

1727notes indeplow: outoft outhlp outdif

1728notes indeplow: Rarely leaves home, but is independent.

1729notes indephigh: outoft outhlp outdif

1730notes indephigh: Goes out often, but is independent.

1731notes never_go_out: freq_go_out outoft

1732notes never_go_out: Never goes out.

1733notes whiteoth: race_cat

1734notes whiteoth: White non-hispanic or other, combined category.

1735notes maritalstat: martlstat dmarstat

1736notes maritalstat: Marital status category.

1737notes mc_partd: covmedcad

1738notes mc_partd: Currently have Medicare, Part D coverage.

1739notes tricare: covtricar

1740notes tricare: Health care for active and retired Armed forces, their families
  > , and survivors.

1741notes private_ltc: nginsnurs

1742notes private_ltc: Have insurance that would pay for more than a year of care
  > in ///
  > nursing home, assisted living, and in own home.

1743notes moved: dadrscorr spadrsnew

1744notes moved: Address same or different address.

1745notes residence: resistrct dresistrct

1746notes residence: Residence physical structure.

1747notes livearrang: lvngarrg dlvngarrg

1748notes livearrang: Living arrangement.

1749notes livealone: livearrang dlvngarrg

1750notes livealone: Lives alone

1751foreach x in female race_cat education income_cat otherlang aveincome freq_go_
  > out ///
  > help_go_out out_on_own needshelp hasdifficulty helpdiff independent homebound_
  > cat ///
  > indeplow indephigh never_go_out whiteoth maritalstat mc_partd tricare private_
  > ltc ///
  > moved residence livearrang livealone {
    2. notes `x': Located in NHATS Setup, under Part 3.
    3. notes `x': Updated: 04/18/19-MH
    4. }

1752
1753notes sr_ami_ever: sr_ami_raw disescn1

1754notes sr_ami_ever: If ever had a heart attack or myocardial infarction (self-r
  > eport).

1755notes sr_stroke_ever: sr_stroke_raw disescn8

1756notes sr_stroke_ever: If ever had a stroke (self-report).

1757notes sr_cancer_ever: sr_cancer_raw disescn10

1758notes sr_cancer_ever: If ever had cancer (self-report).

1759notes sr_ami_new: sr_ami_raw disescn1

1760notes sr_ami_new: If heart attack or myocardial infarction within last year (s
  > elf-report).

1761notes sr_stroke_new: sr_stroke_raw disescn8

1762notes sr_stroke_new: If stroke within last year (self-report).

1763notes sr_cancer_new: sr_cancer_raw disescn10

1764notes sr_cancer_new: If cancer found within last year (self-report).

1765notes sr_hip_ever: sr_hip_raw brokebon1

1766notes sr_hip_ever: Had ever broken or fractured hip (self-report).

1767notes sr_hip_new: sr_hip_raw brokebon1

1768notes sr_hip_new: Had hip fracture since prev interview (self-report).

1769notes sr_heart_dis_ever: sr_heart_dis_raw disescn2

1770notes sr_heart_dis_ever: Had heart disease ever (self-report)

1771notes sr_heart_dis_new: sr_heart_dis_raw disescn2

1772notes sr_heart_dis_new: Had heart disease since prev interview (self-report).

1773notes sr_htn_ever: sr_htn_raw disescn3

1774notes sr_htn_ever: Had High blood pressure ever (self-report)

1775notes sr_htn_new: sr_htn_raw disescn3

1776notes sr_htn_new: Had High blood pressure since prev interview (self-report).

1777notes sr_ra_ever: sr_ra_raw disescn4

1778notes sr_ra_ever: Had arthritis ever (self-report)

1779notes sr_ra_new: sr_ra_raw disescn4

1780notes sr_ra_new: Had arthritis since prev interview (self-report).

1781notes sr_osteoprs_ever: sr_osteoprs_raw disescn5

1782notes sr_osteoprs_ever: Had osteoporosis ever (self-report)

1783notes sr_osteoprs_new: sr_osteoprs_raw disescn5

1784notes sr_osteoprs_new: Had osteoporosis since prev interview (self-report).

1785notes sr_diabetes_ever: sr_diabetes_raw disescn6

1786notes sr_diabetes_ever: Had diabetes ever (self-report)

1787notes sr_diabetes_new: sr_diabetes_raw disescn6

1788notes sr_diabetes_new: Had diabetes since prev interview (self-report).

1789notes sr_lung_dis_ever: sr_lung_dis_raw disescn7

1790notes sr_lung_dis_ever: Had lung disease ever (self-report)

1791notes sr_lung_dis_new: sr_lung_dis_raw disescn7

1792notes sr_lung_dis_new: Had lung disease since prev interview (self-report).

1793notes sr_dementia_ever: sr_dementia_raw disescn9

1794notes sr_dementia_ever: Had dementia ever (self-report)

1795notes sr_dementia_new: sr_dementia_raw disescn9

1796notes sr_dementia_new: Had dementia since prev interview (self-report).

1797foreach x in sr_ami_ever sr_stroke_ever sr_ami_new sr_stroke_new sr_cancer_new
  > ///
  > sr_cancer_ever sr_hip_ever sr_hip_new 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{
      2. notes `x': Located in NHATS Setup, under Part 4.
      3. notes `x': Updated: 04/15/19-MH
      4. }

1798notes lml_ivw_yes: r*spstat r*status

1799notes lml_ivw_yes: Last wave of life interview.

1800notes srh: hc*health

1801notes srh: Self-reported health. As is.

1802foreach x in lml_ivw_yes srh{
      2. notes `x': Located in NHATS Setup, under Part 3.
      3. notes `x': Updated: 04/25/19-MH
      4. }

1803notes prim_helper_opid: Opid

1804notes prim_helper_opid: Primary helper opid.

1805notes prim_helper_cat: op_hrsmth_i max_hrs_helped opishelper_allw

1806notes prim_helper_cat: Primary helper is the OP with most hours.

1807notes tot_hrsmonth_help_i: op_hrsmth_i

1808notes tot_hrsmonth_help_i: imputed total number of helper hours received per m
  > onth.

1809notes n_helpers: op_hrsmth_i

1810notes n_helpers: Number of helpers per spid wave.

1811notes tot_hrswk_help_i: op_hrsmth_i

1812notes tot_hrswk_help_i: imputed total number of helper hours received per week
  > .

1813notes n_family_helpers: op_relationship_cat

1814notes n_family_helpers: OP is a family helper.

1815notes ind_family_helper: op_relationship_cat

1816notes ind_family_helper: Indicate a family helper.

1817notes n_paid_helpers: paid

1818notes n_paid_helpers: Number paid helpers.

1819notes ind_paid_helper: n_paid_helper

1820notes ind_paid_helper: Indicate any paid helper.

1821notes ind_rc_staff: rc_staff

1822notes ind_rc_staff: Indicate facility staff.

1823notes num_helpers_cat: n_helpers

1824notes num_helpers_cat: Categorical number of helpers, 0-2, 3-6, 7+

1825notes tot_hrsmonth_paid_i: phrs

1826notes tot_hrsmonth_paid_i: Imputed help received hours per month, for paid he
  > lpers

1827notes tot_hrswk_paid_i: tot_hrsmonth_paid_i

1828notes tot_hrswk_paid_i: Imputed help received hours per week, for paid helpers

1829notes ind_no_helpers: n_helpers

1830notes ind_no_helpers: No reported helpers.

1831foreach x in prim_helper_opid prim_helper_cat tot_hrsmonth_help_i n_helpers to
  > t_hrswk_help_i ///
  > n_family_helpers ind_family_helper n_paid_helpers ind_paid_helper ind_rc_staff
  > num_helpers_cat ///
  > tot_hrsmonth_paid_i tot_hrswk_paid_i ind_no_helpers{
    2. notes `x': Located in NHATS Setup, under Part 6.
    3. notes `x': Updated: 04/25/19-MH
    4. }

1832notes sr_depr_pqq1: depresan1

1833notes sr_depr_pqq1: Little interest or pleasure doing things.

1834notes sr_depr_pqq2: depresan2

1835notes sr_depr_pqq2: Felt down, depressed, hopeless.

1836notes sr_anx_gad1: depresan3

1837notes sr_anx_gad1: Felt nervous, anxious, on edge.

1838notes sr_anx_gad2: depresan4

1839notes sr_anx_gad2: Been unable to stop or control worrying.

1840notes sr_phq2_score: depresan1 depresan2 made into sr_depr_pqq1 sr_depr_pqq2

1841notes sr_phq2_score: Adding sr_depr_pqq1 and sr_depr_pqq2 to get a score. Had
  > little /7/
  > interest doing things; felt hopeless, down, or depressed.

1842notes sr_phq2_depressed: sr_phq2_score

1843notes sr_phq2_depressed: If score is greater 3 or more, then classified as dep
  > ressed per PHQ-2.

1844notes sr_gad2_score: sr_anx_gad1 sr_anx_gad2

1845notes sr_gad2_score: Adding sr_anx_gad1 and sr_anx_gad2 to get a score. Felt n
  > ervous, anxious, or on edge; /7/
  > been unable to stop or control worrying.

1846notes sr_gad2_anxiety: sr_gad2_score

1847notes sr_gad2_anxiety: If score is greater 3 or more, then classified as havin
  > g anxiety per GAD-2.

1848notes dem_3_cat: disescn9 dem_via_proxy speaktosp

1849notes dem_3_cat: Indicates if SP reported dementia, from either SP themselves
  > or through proxy.

1850notes dem_2_cat: disescn9 dem_via_proxy speaktosp

1851notes dem_2_cat: Indicates if SP reported dementia. Possible/ probable dementi
  > a status.

1852notes memory: ratememry memrygood

1853notes memory: Rate your memory.

1854foreach x in sr_phq2_score sr_phq2_depressed sr_gad2_score sr_gad2_anxiety dem
  > _3_cat memory{
     2. notes `x': Located in NHATS Setup, under Part 4.
     3. notes `x': Updated: 04/29/19-MH
     4. }

1855
1856notes spid: spid

1857notes spid: Sample person identifier

1858notes ntlvrmslp: ntlvrmslp

1859notes ntlvrmslp: Did not leave bedroom flag

1860notes eatdev: eatdev

1861notes eatdev: Use eating adapted eating utensils.

1862notes dresslf: dresslf

```
1863notes dresslf: How often get dressed by self with no help.

1864notes dresdif: dresdif

1865notes dresdif: Use special items to help you get dressed.

1866notes yearsample: "_"

1867notes yearsample: Year SP entered sample.

1868forvalues w=1/$w{
    2. notes r`w'status: r`w'status
    3. notes r`w'status: status from traker file
    4. }

1869notes trfinwgt: trfinwgt

1870notes trfinwgt: Tracker weight

1871notes tr2011wgt: tr2011wgt

1872notes tr2011wgt: 2011 Tracker weight

1873notes sp_status: nhres res_care deceased

1874notes sp_status: Status of the SP in that wave.

1875notes ivw_day: spstatdtdy

1876notes ivw_day: From restricted tracker day of interview

1877notes ivw_month: spstatdtmt fqstatdtmt

1878notes ivw_month: From restricted tracker month of interview

1879notes ivw_year: spstatdtyr

1880notes ivw_year: From restricted tracker year of interview

1881notes death_date: dd_claims dd_nhats

1882notes death_date: from claims or tracker

1883notes death_month: dd_claims dd_nhats

1884notes death_month: from claims or tracker

1885notes death_year: dd_claims dd_nhats

1886notes death_year: from claims or tracker

1887notes death_source: dd_claims dd_nhats

1888notes death_source: Death date source from claims, nhats, both.

1889notes nhats_death_day: pd*mthdied pd*yrdied

1890notes nhats_death_day: NHATS death date

1891notes nhats_death_month: pd*mthdied
```

```
1892notes nhats_death_month: NHATS death month

1893notes nhats_death_year: pd*yrdied

1894notes nhats_death_year: NHATS death year

1895notes tot_spousehrs: op_hrswk_i

1896notes tot_spousehrs: Hours of help from spouse sources

1897notes tot_daughterhrs: op_hrswk_i

1898notes tot_daughterhrs: Hours of help from daughter sources

1899notes tot_sonhrs: op_hrswk_i

1900notes tot_sonhrs: Hours of help from son sources

1901notes tot_paidhrs: op_hrswk_i

1902notes tot_paidhrs: Hours of help from paid sources

1903foreach x in sp_status nhats_death_day nhats_death_month nhats_death_year ///
  > death_source death_year death_month death_date ivw_year ivw_month ivw_day ///
  > tot_spousehrs tot_daughterhrs tot_sonhrs tot_paidhrs{
    2. notes `x': Located in NHATS Setup, under Part 7.
    3. notes `x': Updated: 05/03/19-MH
    4. }

1904notes ivw_type: r*spstat r*status

1905notes ivw_type: Determining if SP or Proxy completed interview.

1906notes sp_ivw_yes: r*spstat

1907notes sp_ivw_yes: If SP completed interview

1908
1909keep 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

1910
1911
1912 saveold "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
```

```
1913
1914gen time2d=mofd(nhats_death_date)-mofd(ivw_date)
  (39,184 missing values generated)

1915
1916foreach 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.
1917}
  (2,671 missing values generated)
  (2,671 missing values generated)

1918
1919capture log close
```