```
_____(R)
/___/ / ____/
___/ Statistics/Data Analysis
```

name: <unnamed> log: E:\16GBBACKUPUSB\BACKUP\_USB\_SEPTEMBER2014\May Baydoun\_folder\NHANES\_NFL\_MORTALITY\_PAPER\OUTPUT\DATA\_MANAGE log type: smcl opened on: 2 Nov 2022, 07:28:21 1. 3. 4. 6 . \* May 2022 7. 8 . \*\* PUBLIC-USE LINKED MORTALITY FOLLOW-UP THROUGH DECEMBER 31, 2019 \*\* 9. 10 . \* The following Stata code can be used to read the fixed-width format ASCII 11 . \* public-use Linked Mortality Files (LMFs) from a stored location into a 12 . \* Stata dataset. Basic frequencies are also produced. 13 . 14 . 15 . \*\*NOTE: The format definitions given below will result in procedure output showing values that have been grouped as they are shown in the file layout 16 . \*\* 17 . documentation. 18 . 19 . 20 . \*\*To download and save the public-use LMFs to your hard drive, follow these steps: 22 . \*Step 1: Designate a folder on your hard drive to download the public-use LMF. In this example, the data will be saved to: 'C:\PUBLIC USE DATA' 25 . \*Step 2: To download the public-use LMF, go to the web site: 26 . \*\* https://ftp.cdc.gov/pub/health\_statistics/nchs/datalinkage/linked\_mortality/. 27 . \*\* Right click on the desired survey link and select "Save target as...". 28 . 29 . \*\* A "Save As" screen will appear where you will need to select and input \*\* a location where to save the data file on your hard drive. 30 . 31 . 32 . \*\* Also note that the "Save as type:" box should read "DAT File (\*.dat)". 33 . \*\* This will ensure that the data file is saved to your hard drive in the \*\* correct format. 34 . 35 . 36 . \*\* In this example, the data file is saved in the folder, "C:\PUBLIC USE DATA", \*\* and the data file is saved as "<SURVEY> MORT 2019 PUBLIC.DAT". 37 . 38 . \*/ 39 . 40 . global SURVEY NHANES\_2013\_2014 // REPLACE <SURVEY> WITH RELEVANT SURVEY NAME (IN ALL CAPS) 41 . 42 . clear all 43 . 44 . \*\*\*\*\*\*\*\*\*\*\* 45 . \*NHANES VERSION\* 46 . \*\*\*\*\*\*\*\*\*\* 47 . clear all

(9,708 real changes made, 9,708 to missing)

76 . replace hyperten = .z if hyperten >=.
 (9,708 real changes made, 9,708 to missing)

```
48 .
49 . // DEFINE VALUE LABELS FOR REPORTS
50 . label define premiss .z "Missing"
51 . label define eligfmt 1 "Eligible" 2 "Under age 18, not available for public release" 3 "Ineligible"
52 . label define mortfmt 0 "Assumed alive" 1 "Assumed deceased" .z "Ineligible or under age 18"
53 . label define flagfmt 0 "No - Condition not listed as a multiple cause of death" 1 "Yes - Condition listed as a multip.
54 . label define qtrfmt 1 "January-March" 2 "April-June" 3 "July-September" 4 "October-December" .z "Ineligible, under ag
55 . label define dodyfmt .z "Ineligible, under age 18, or assumed alive"
56 . label define ucodfmt 1 "Diseases of heart (I00-I09, I11, I13, I20-I51)"
57 . label define ucodfmt 2 "Malignant neoplasms (C00-C97)"
                                                                                                        , add
58 . label define ucodfmt 3 "Chronic lower respiratory diseases (J40-J47)"
                                                                                                        , add
59 . label define ucodfmt 4 "Accidents (unintentional injuries) (V01-X59, Y85-Y86)"
                                                                                                        , add
60 . label define ucodfmt 5 "Cerebrovascular diseases (I60-I69)"
                                                                                                        , add
61 . label define ucodfmt 6 "Alzheimer's disease (G30)"
                                                                                                        , add
62 . label define ucodfmt 7 "Diabetes mellitus (E10-E14)"
                                                                                                        , add
63 . label define ucodfmt 8 "Influenza and pneumonia (J09-J18)"
                                                                                                        , add
64 . label define ucodfmt 9 "Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)"
                                                                                                       , add
65 . label define ucodfmt 10 "All other causes (residual)"
                                                                                                        , add
66 . label define ucodfmt .z "Ineligible, under age 18, assumed alive, or no cause of death data"
                                                                                                        , add
67 .
68 . // READ IN THE FIXED-WIDTH FORMAT ASCII PUBLIC-USE LMF
69 . infix seqn 1-6 eligstat 15 mortstat 16 ucod_leading 17-19 diabetes 20 hyperten 21 permth_int 43-45 permth_exm 46-48 us
   (10,175 observations read)
70 .
71 .
72 . // REPLACE MISSING VALUES TO .z FOR LABELING
73 . replace mortstat = .z if mortstat >=.
   (4,075 real changes made, 4,075 to missing)
74 . replace ucod_leading = .z if ucod_leading >=.
   (9,708 real changes made, 9,708 to missing)
75 . replace diabetes = .z if diabetes >=.
```

```
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77 . replace permth_int = .z if permth_int >=.
    (4,075 real changes made, 4,075 to missing)
78 . replace permth_exm = .z if permth_exm >=.
    (4,262 real changes made, 4,262 to missing)
79 .
 80 .
81 . // DEFINE VARIABLE LABELS
82 . label var seqn "NHANES Respondent Sequence Number"
83 . label var eligstat "Eligibility Status for Mortality Follow-up"
84 . label var mortstat "Final Mortality Status"
85 . label var ucod_leading "Underlying Cause of Death: Recode"
86 . label var diabetes "Diabetes flag from Multiple Cause of Death"
87 . label var hyperten "Hypertension flag from Multiple Cause of Death"
 88 . label var permth int "Person-Months of Follow-up from NHANES Interview date"
89 . label var permth_exm "Person-Months of Follow-up from NHANES Mobile Examination Center (MEC) Date"
90 .
91 .
92 . // ASSOCIATE VARIABLES WITH FORMAT VALUES
93 . label values eligstat eligfmt
94 . label values mortstat mortfmt
95 . label values ucod_leading ucodfmt
96 . label values diabetes flagfmt
97 . label values hyperten flagfmt
98 . label value permth_int premiss
99 . label value permth_exm premiss
100 .
101 .
102 . // DISPLAY OVERALL DESCRIPTION OF FILE
103 . describe
```

Conta	ins	data
CUIICA	TIIS	uata

Observations: 10,175 Variables:

Variable name	Storage type	Display format	Value label	Variable label
seqn	float	%9.0g		NHANES Respondent Sequence Number
eligstat	byte	%46.0g	eligfmt	Eligibility Status for Mortality Follow-up
mortstat	byte	%26.0g	mortfmt	Final Mortality Status
ucod_leading	float	%71.0g	ucodfmt	Underlying Cause of Death: Recode
diabetes	byte	%86.0g	flagfmt	Diabetes flag from Multiple Cause of Death
hyperten	byte	%86.0g	flagfmt	Hypertension flag from Multiple Cause of Death
permth int	fĺoat	%9.0g	premiss	Person-Months of Follow-up from NHANES Interview date
permth_exm	float	%9.0g	premiss	Person-Months of Follow-up from NHANES Mobile Examination Center (MEC) Da

Sorted by:

Note: Dataset has changed since last saved.

104 . 105 .

106 . // ONE-WAY FREQUENCIES (UNWEIGHTED)

107 . tab1 eligstat mortstat ucod\_leading diabetes hyperten, missing

## -> tabulation of eligstat

Eligibility Status for Mortality Follow-up	Freq.	Percent	Cum.
Eligible Under age 18, not available for public Ineligible	6,100 4,062 13	59.95 39.92 0.13	59.95 99.87 100.00
Total	10,175	100.00	

# -> tabulation of mortstat

Final Mortality Status	Freq.	Percent	Cum.
Assumed alive Assumed deceased Ineligible or under age 18	5,633 467 4,075	55.36 4.59 40.05	55.36 59.95 100.00
Total	10,175	100.00	

# -> tabulation of ucod\_leading

Underlying Cause of Death: Recode	Freq.	Percent	Cum.
Diseases of heart (I00-I09, I11, I13, I	136	1.34	1.34
Malignant neoplasms (C00-C97)	99	0.97	2.31
Chronic lower respiratory diseases (J40	24	0.24	2.55
Accidents (unintentional injuries) (V01	14	0.14	2.68
Cerebrovascular diseases (I60-I69)	28	0.28	2.96
Alzheimer's disease (G30)	17	0.17	3.13
Diabetes mellitus (E10-E14)	21	0.21	3.33
Influenza and pneumonia (J09-J18)	9	0.09	3.42
Nephritis, nephrotic syndrome and nephr	16	0.16	3.58
All other causes (residual)	103	1.01	4.59
Ineligible, under age 18, assumed alive	9,708	95.41	100.00
Total	10.175	100.00	

# -> tabulation of diabetes

Diabetes flag from Multiple Cause of Death	Freq.	Percent	Cum.
No - Condition not listed as a multiple Yes - Condition listed as a multiple ca Assumed alive, under age 18, ineligible	422 45 9,708	4.15 0.44 95.41	4.15 4.59 100.00
Total	10,175	100.00	

# -> tabulation of hyperten

Hypertension flag from Multiple Cause of Death	Freq.	Percent	Cum.
No - Condition not listed as a multiple Yes - Condition listed as a multiple ca Assumed alive, under age 18, ineligible	384 83 9,708	3.77 0.82 95.41	3.77 4.59 100.00
Total	10,175	100.00	

108 . tab permth\_int if permth\_int==.z, missing

```
Person-Mont
      hs of
  Follow-up
from NHANES
  Interview
       date
                    Freq.
                              Percent
                                              Cum.
    Missing
                    4,075
                               100.00
                                            100.00
      Total
                    4,075
                               100.00
```

109 . tab permth\_exm if permth\_exm==.z, missing

```
Person-Mont
      hs of
  Follow-up
from NHANES
     Mobile
Examination
     Center
 (MEC) Date
                              Percent
                    Freq.
                                              Cum.
   Missing
                   4,262
                               100.00
                                            100.00
                               100.00
      Total
                    4,262
```

```
110 .
111 . // SAVE DATA FILE IN DIRECTORY DESIGNATED AT TOP OF PROGRAM AS **SURVEY**_PUF.DTA
112 . // replace option allows Stata to overwrite an existing .dta file
113 . save ${SURVEY}_PUF, replace
   file NHANES_2013_2014_PUF.dta saved
```

115 .

118 . use NHANES\_2013\_2014\_PUF,clear

119 . sort seqn

114 .

120 . save, replace file NHANES\_2013\_2014\_PUF.dta saved

122 . use SSSNFL\_H,clear

123 . sort seqn

124 . save, replace file SSSNFL\_H.dta saved

126 . merge seqn using NHANES\_2013\_2014\_PUF  $\,$ (you are using old merge syntax; see [D] merge for new syntax)

```
127 .
```

128 . save NHANES\_2013\_2014\_PUF\_NFL, replace
 file NHANES\_2013\_2014\_PUF\_NFL.dta saved

129 . tab \_merge

_merge	Freq.	Percent	Cum.
2	8,090 2,085	79.51 20.49	79.51 100.00
Total	10,175	100.00	

130 . capture drop \_merge

131 . sort seqn

132 . save, replace

file NHANES\_2013\_2014\_PUF\_NFL.dta saved

133 .

135 .

136 . use NHANES\_2013\_2014\_PUF\_NFL,clear

137 . sort seqn

138 . save, replace

file NHANES\_2013\_2014\_PUF\_NFL.dta saved

139 .

140 .

141 .

142 . use NHANES2013DEMO, clear

143 . sort seqn

144 . save, replace

file NHANES2013DEMO.dta saved

145 .

146 .

147 . merge seqn using NHANES\_2013\_2014\_PUF\_NFL (you are using old merge syntax; see [D] merge for new syntax)

148 .

149 . save NHANES\_NFL\_MORTALITY\_PAPER, replace
 file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

150 .

151 .

153 .

154 . use NHANES\_NFL\_MORTALITY\_PAPER, clear

```
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155 .
156 . capture drop LnNFL
157 . gen LnNFL=.
   (10,175 missing values generated)
158 . replace LnNFL=ln(sssnfl)
   (2,071 real changes made)
159 .
160 . capture drop zLnNFL
161 . egen zLnNFL=std(LnNFL)
   (8,104 missing values generated)
162 .
163 . capture drop LnNFLmedian
164 . xtile LnNFLmedian=LnNFL, nq(2)
165 .
166 .
167 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
168 .
169 .
171 .
173 . stset permth_exm [pweight=wtssnh2y], failure(mortstat)
   Survival-time data settings
           Failure event: mortstat!=0 & mortstat<.
   Observed time interval: (0, permth_exm]
        Exit on or before: failure
                 Weight: [pweight=wtssnh2y]
        10,175 total observations
        4,262 event time missing (permth_exm>=.)
                                                         PROBABLE ERROR
            1 observation ends on or before enter()
        3,842 weights invalid
                                                         PROBABLE ERROR
        2,070 observations remaining, representing
           84 failures in single-record/single-failure data
       146,303 total analysis time at risk and under observation
                                              At risk from t =
                                                                    0
```

Earliest observed entry t =

174 .

175 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

Last observed exit t =

0

85

```
176 .
177 .
```

178 . **179** .

181 . 182 .

183 . 184 . stcox zLnNFL riagendr ridageyr i.ridreth3 dmdeduc2 i.dmdmartl dmdhhsiz indfmpir

Failure \_d: mortstat Analysis time  $_{\tt t}: {\tt permth\_exm}$ 

Weight: [pweight=wtssnh2y]

(sum of wgt is 201,352,806.76699)

Iteration 0: log pseudolikelihood = -1.358e+08 Iteration 1: log pseudolikelihood = -1.331e+08 Iteration 2: log pseudolikelihood = -1.296e+08 Iteration 3: log pseudolikelihood = -1.292e+08 log pseudolikelihood = -1.292e+08 Iteration 4: Iteration 5: log pseudolikelihood = -1.292e+08

Refining estimates:

Iteration 0: log pseudolikelihood = -1.292e+08

Cox regression with Breslow method for ties

No. of subjects = 201,352,807 No. of failures = 7,152,197

= 1.42392e+10 Time at risk

Log pseudolikelihood = -1.292e+08

Number of obs = 1,924

Wald chi2(16) = 161.03Prob > chi2 = **0.0000** 

_t	Haz. ratio	Robust std. err.	z	P> z	[95% conf.	interval]
zLnNFL	1.92408	. 2179815	5.78	0.000	1.540953	2.402463
riagendr	.8864334	.2533683	-0.42	0.673	.5062303	1.552187
ridageyr	1.020602	.0129518	1.61	0.108	.9955303	1.046306
ridreth3	6727270	FC44F3F	0.47	0.636	4200222	2 400652
2	.6727278	.5641525	-0.47	0.636	.1300223	3.480653
3	1.982381	.8882414	1.53	0.127	.8237413	4.770713
4	2.256323	1.071733	1.71	0.087	.8893823	5.724192
6	1.498798	.9295474	0.65	0.514	.4444596	5.054221
7	1.211291	.8531496	0.27	0.786	.304594	4.816992
dmdeduc2	1.263872	.1641804	1.80	0.071	.9797822	1.630333
dmdmartl						
2	2.962331	1.548563	2.08	0.038	1.063326	8.252786
3	2.121328	.7400986	2.16	0.031	1.070624	4.203189
4	.6442898	.5744393	-0.49	0.622	.1122438	3.698283
5	1.338344	.6574605	0.59	0.553	.510994	3.505257
6	1.220847	.680992	0.36	0.721	.4091275	3.64304
dmdhhsiz	.9319441	.0995473	-0.66	0.509	.755905	1.14898
indfmpir	.6991036	.1048333	-2.39	0.017	.5210754	.9379561

185 . 186 .

187 . stcox LnNFLmedian riagendr ridageyr i.ridreth3 dmdeduc2 i.dmdmartl dmdhhsiz indfmpir

Failure \_d: mortstat Analysis time \_t: permth\_exm
Weight: [pweight=wtssnh2y]

(sum of wgt is 201,352,806.76699)

Iteration 0: log pseudolikelihood = -1.358e+08 log pseudolikelihood = -1.344e+08 Iteration 1: Iteration 2: log pseudolikelihood = -1.311e+08 Iteration 3: log pseudolikelihood = -1.308e+08 log pseudolikelihood = -1.308e+08 Iteration 4: Iteration 5: log pseudolikelihood = -1.308e+08

Refining estimates:

Iteration 0: log pseudolikelihood = -1.308e+08

Cox regression with Breslow method for ties

No. of subjects = **201,352,807** 

Number of obs = 1,924

No. of failures = 7,152,197 Time at risk = 1.42392e+10

Wald chi2(16) = 114.37

Log pseudolikelihood = -1.308e+08

Prob > chi2 = 0.0000

+	Haz. ratio	Robust std. err.	z	P> z	[QE% conf	intervall
_t	naz. ratio	stu. err.			[93% COIII.	
LnNFLmedian	2.488295	1.02873	2.20	0.027	1.106602	5.595155
riagendr	.7887871	.237985	-0.79	0.432	.4366603	1.424872
ridageyr	1.033365	.013623	2.49	0.013	1.007006	1.060413
ridreth3						
2	.5547004	.4688028	-0.70	0.486	.1058447	2.90702
3	2.095045	.9257236	1.67	0.094	.8812084	4.980903
4	2.196392	1.027419	1.68	0.093	.878089	5.493907
6	1.326717	.8144938	0.46	0.645	.3983013	4.419216
7	1.718498	1.885708	0.49	0.622	.2000441	14.76293
dmdeduc2	1.281194	.164635	1.93	0.054	.9959434	1.648145
dmdmartl						
2	2.496359	1.196118	1.91	0.056	.9760182	6.38493
3	2.154249	.8028508	2.06	0.039	1.037691	4.472226
4	.5143539	.4693087	-0.73	0.466	.0860212	3.07552
5	1.382412	.657477	0.68	0.496	.5442581	3.511318
6	1.25233	.6946726	0.41	0.685	.4222346	3.714358
dmdhhsiz	.9397773	.1028721	-0.57	0.570	.7583135	1.164665
indfmpir	.6727433	.0959856	-2.78	0.005	.5086297	.8898095

```
189 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
190 .
191 .
> amin D), measures of BMI, blood pressure, dyslipidemia, hyperglycemia, eGFR, CO-MORBIDITY INDEX, SELF-RATED HEALTH***
194 . use NHANES_NFL_MORTALITY_PAPER,clear
195 . capture drop _merge
196 . sort seqn
197 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
198 .
199 . **Health insurance**
200 . use HIQ_H,clear
201 . capture drop _merge
202 . sort seqn
203 . save, replace
  file HIQ_H.dta saved
204 .
205 .
206 . **Income measures**
207 . use INQ_H,clear
208 . capture drop _merge
209 . sort seqn
210 . save, replace
   file INQ_H.dta saved
212 . **Smoking**
213 . use SMQ_H,clear
214 . capture drop _merge
215 . sort seqn
216 . save, replace
   file SMQ_H.dta saved
218 . **Alcohol use**
```

219 . use ALQ\_H,clear

```
220 . capture drop _merge
221 . sort seqn
222 . save, replace
   file ALQ_H.dta saved
223 .
225 . **Drug use**
226 . use DUQ_H,clear
227 . capture drop _merge
228 . sort seqn
229 . save, replace
   file DUQ_H.dta saved
230 .
231 .
232 . **DIET**
233 . use DR1TOT_H,clear
234 . capture drop _merge
235 . sort seqn
236 . save, replace
   file DR1TOT_H.dta saved
237 .
238 .
239 . use DR2TOT_H,clear
240 . capture drop _merge
241 . sort seqn
242 . save, replace
    file DR2TOT_H.dta saved
243 .
244 .
245 . use DR1TOT_H,clear
246 . merge seqn using DR2TOT_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
247 . save DR12TOT\_H, replace
    file DR12TOT_H.dta saved
248 . capture drop _merge
249 . sort seqn
```

```
250 . save, replace
   file DR12TOT_H.dta saved
251 .
252 .
253 . **BODY MEASURES**
254 . use BMX_H,clear
255 . capture drop _merge
256 . sort seqn
257 . save, replace
   file BMX_H.dta saved
258 .
259 .
260 . **Blood pressure**
261 . use BPX_H,clear
262 . capture drop _merge
263 . sort seqn
264 . save, replace
   file BPX_H.dta saved
266 . **Albumin and creatinine**
267 . use ALB_CR_H,clear
268 . capture drop _merge
269 . sort segn
270 . save, replace
   file ALB_CR_H.dta saved
272 . **BP and Cholesterol medication**
273 . use BPQ_H,clear
274 . capture drop _merge
275 . sort seqn
276 . save, replace
   file BPQ_H.dta saved
277 .
278 . **Depressive symptoms**
279 . use DPQ_H,clear
```

280 . capture drop \_merge

- 281 . sort seqn
- 282 . save, replace file DPQ\_H.dta saved
- 283 . 284 . \*\*Self-rated health\*\*
- 285 . use HSQ\_H,clear
- 286 . capture drop \_merge
- 287 . sort seqn
- 288 . save, replace file HSQ\_H.dta saved
- 290 . \*\*Co-morbidity index\*\*
- 291 . use MCQ\_H,clear
- 292 . capture drop \_merge
- 293 . sort seqn
- 294 . save, replace file MCQ\_H.dta saved
- 296 . \*\*Physical activity\*\*
- 297 . use PAQ\_H,clear
- 298 . capture drop \_merge
- 299 . sort seqn
- 300 . save, replace file PAQ\_H.dta saved
- 301 .
- 302 . \*\*Sleep\*\*
- 303 . use SLQ\_H,clear
- 304 . capture drop \_merge
- 305 . sort seqn
- 306 . save, replace file SLQ\_H.dta saved
- 307 . 308 . \*\*Vitamin B-12\*\*
- 309 . use VITB12\_H,clear
- 310 . capture drop \_merge

```
311 . sort seqn
312 . save, replace
   file VITB12_H.dta saved
313 .
314 .
315 . **Folate**
316 . use FOLATE_H,clear
317 . capture drop _merge
318 . sort seqn
319 . save, replace
   file FOLATE_H.dta saved
320 .
321 .
322 . **Vitamin D**
323 . use VID_H,clear
324 . capture drop _merge
325 . sort seqn
326 . save, replace
   file VID_H.dta saved
327 .
328 .
329 . **Lipids and glycated hemoglobin**
330 .
331 . use TRIGLY_H,clear
332 . capture drop _merge
333 . sort seqn
334 . save, replace
   file TRIGLY_H.dta saved
335 .
336 .
337 . use TCHOL_H,clear
338 . capture drop _merge
339 . sort seqn
340 . save, replace
   file TCHOL_H.dta saved
```

341 . 342 .

371 . sort seqn

```
372 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
373 . merge seqn using SMQ_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
374 . capture drop _merge
375 . sort seqn
376 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
377 . merge seqn using ALQ_H
    (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
378 . capture drop _merge
379 . sort seqn
380 . save, replace
   file NHANES NFL MORTALITY PAPER.dta saved
381 . merge seqn using DUQ_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
382 . capture drop _merge
383 . sort seqn
384 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
385 . merge seqn using DR12TOT_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
386 . capture drop _merge
387 . sort seqn
388 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
389 . merge segn using BMX H
    (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
390 . capture drop _merge
391 . sort seqn
392 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
393 . merge seqn using BPX_H
    (you are using old merge syntax; see [D] merge for new syntax)
```

```
394 . capture drop _merge
395 . sort segn
396 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
397 . merge seqn using ALB_CR_H
    (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
398 . capture drop _merge
399 . sort seqn
400 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
401 . merge seqn using BPQ_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
402 . capture drop _merge
403 . sort seqn
404 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
405 . merge seqn using DPQ_H
    (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
406 . capture drop _merge
407 . sort seqn
408 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
409 . merge seqn using HSQ_H
    (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
410 . capture drop _merge
411 . sort seqn
412 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
413 . merge seqn using MCQ_H
    (you are using old merge syntax; see [D] merge for new syntax)
414 . capture drop _merge
415 . sort seqn
416 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
```

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```
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417 . merge seqn using PAQ_H
   (you are using old merge syntax; see [D] merge for new syntax)

418 . capture drop _merge

419 . sort seqn

420 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved

421 . merge seqn using SLQ_H
```

- (you are using old **merge** syntax; see [D] merge for new syntax)
- 422 . capture drop \_merge
- 423 . sort seqn
- 424 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved
- 425 . merge seqn using FOLATE\_H (you are using old merge syntax; see [D] merge for new syntax)
- 426 . capture drop \_merge
- 427 . sort seqn
- 428 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved
- 429 . merge seqn using VITB12\_H (you are using old merge syntax; see [D] merge for new syntax)
- 430 . capture drop \_merge
- 431 . sort seqn
- 432 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved
- 433 . merge seqn using VID\_H (you are using old merge syntax; see [D] merge for new syntax)
- 434 . capture drop \_merge
- 435 . sort seqn
- 436 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved
- 437 . merge seqn using TRIGLY\_H (you are using old merge syntax; see <a href="[D] merge">[D] merge</a> for new syntax)
- 438 . capture drop \_merge

```
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439 . sort seqn
440 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
441 . merge seqn using TCHOL_H
   (you are using old merge syntax; see [D] merge for new syntax)
442 . capture drop _merge
443 . sort seqn
444 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
445 . merge seqn using INS_H
   (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
446 . capture drop _merge
447 . sort segn
448 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
449 . merge seqn using GHB_H
   (you are using old merge syntax; see <a>[D]</a> merge for new syntax)
450 . capture drop _merge
451 . sort segn
452 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
453 . merge seqn using GLU_H
   (you are using old merge syntax; see <a>[D] merge</a> for new syntax)
454 . capture drop _merge
455 . sort seqn
456 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
458 . capture rename seqn-lbdglusi,upper
459 .
460 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
463 .
```

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464 . \*\*AGE\*

465 .

466 . capture drop AGE

467 . gen AGE=RIDAGEYR

468 .

469 . su AGE, det

		AGE		
	Percentiles	Smallest		
1%	0	0		
5%	1	0		
10%	3	0	0bs	10,175
25%	10	0	Sum of wgt.	10,175
50%	26		Mean	31.48413
		Largest	Std. dev.	24.42165
75%	52	80		
90%	68	80	Variance	596.4171
95%	75	80	Skewness	.4382973
99%	80	80	Kurtosis	1.906333

470 . histogram AGE (bin=40, start=0, width=2)

471 .

472 . \*\*SEX\*\*

473 .

474 . capture drop SEX

475 . gen SEX=RIAGENDR

476 .

477 . tab SEX

Cum.	Percent	Freq.	SEX
49.17 100.00	49.17 50.83	5,003 5,172	1 2
	100.00	10,175	Total

478 .

479 .

480 . \*\*RACE/ETHNICITY\*\*

482 . \*\*0: Non-Hispanic White, 1:Non-Hispanic Black, 2:Mexican American or other Hispanic, and 3:Other race/ethnicities

483 .

484 .

485 . capture drop RACE\_ETHN

486 . gen RACE\_ETHN=.

(10,175 missing values generated)

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- 487 . replace RACE\_ETHN=0 if RIDRETH3==3 (3,674 real changes made)
- 488 . replace RACE\_ETHN=1 if RIDRETH3==4 (2,267 real changes made)
- 489 . replace RACE\_ETHN=2 if RIDRETH3==1 | RIDRETH3==2 (2,690 real changes made)
- 490 . replace RACE\_ETHN=3 if RIDRETH3~=. & RACE\_ETHN==. (1,544 real changes made)

491 .

492 . tab RACE\_ETHN

RACE_ETHN	Freq.	Percent	Cum.
0	3,674	36.11	36.11
1	2,267	22.28	58.39
2	2,690	26.44	84.83
3	1,544	15.17	100.00
Total	10,175	100.00	

493 .

494 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

495 .

496 .

497 . \*\*MARITAL STATUS\*\*

498 . tab DMDMARTL, missing

Marital status	Freq.	Percent	Cum.
1	2,965	29.14	29.14
2	436	4.29	33.43
3	659	6.48	39.90
4	177	1.74	41.64
5	1,112	10.93	52.57
6	417	4.10	56.67
77	2	0.02	56.69
99	1	0.01	56.70
•	4,406	43.30	100.00
Total	10,175	100.00	

499 .

500 . capture drop MARRIED\_LIVP

501 . gen MARRIED\_LIVP=.

(10,175 missing values generated)

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503 . replace MARRIED\_LIVP=2 if DMDMARTL == 2 | DMDMARTL == 3 | DMDMARTL == 4 | DMDMARTL == 5 (2,384 real changes made)

504 .

505 . tab MARRIED\_LIVP, missing

MARRIED_LIV P	Freq.	Percent	Cum.
1	3,382	33.24	33.24
2	2,384	23.43	56.67
•	4,409	43.33	100.00
Total	10,175	100.00	

506 .

507 . 508 . \*\*HOUSEHOLD SIZE\*\*

510 . capture drop HOUSEHOLDSIZE

511 . gen HOUSEHOLDSIZE=DMDHHSIZ

512 . su HOUSEHOLDSIZE

Variable	0bs	Mean	Std. dev.	Min	Max
HOUSEHOLDS~E	10,175	3.874693	1.722184	1	7

513 .

515 . \*\*POVERTY INCOME RATIO\*\*

516 .

517 . tab INDFMPIR, missing

Ratio of family income to poverty	Freq.	Percent	Cum.
0	105	1.03	1.03
.01	10	0.10	1.13
.02	30	0.29	1.43
.03	29	0.29	1.71
.04	14	0.14	1.85
.05	7	0.07	1.92
.06	11	0.11	2.02
.07	25	0.25	2.27
.08	5	0.05	2.32
.09	12	0.12	2.44
.1	11	0.11	2.55
.11	12	0.12	2.66
.12	7	0.07	2.73
.13	23	0.23	2.96
.14	4	0.04	3.00
.15	3	0.03	3.03
.16	7	0.07	3.10
.17	14	0.14	3.23
.18	16	0.16	3.39
.19	6	0.06	3.45
.2	13	0.13	3.58
.21	14	0.14	3.71
.22	5	0.05	3.76
.23	1	0.01	3.77
.24	6	0.06	3.83
.25	19	0.19	4.02
.26	24	0.24	4.26

.27	3	0.03	4.29
.28	14	0.14	4.42
.29	31	0.30	4.73
.3	20	0.20	4.92
.31	33	0.32	5.25
.32		0.17	5.42
	17		
.33	12	0.12	5.53
.34	20	0.20	5.73
.35	46	0.45	6.18
.36	35	0.34	6.53
.37	7	0.07	6.59
.38	25	0.25	6.84
.39	8	0.08	6.92
.4	15	0.15	7.07
.41	12	0.12	7.18
.42	34	0.33	7.52
.43	19	0.19	7.71
.44	12	0.12	7.82
.45	34	0.33	8.16
.46	19	0.19	8.34
.47	51	0.50	8.85
.48	28	0.28	9.12
.49	12	0.12	9.24
.5	28	0.28	9.51
.51	61	0.60	10.11
.52	25	0.25	10.36
.53	10	0.10	10.46
.54	77	0.76	11.21
.55	20	0.20	11.41
.56	51	0.50	11.91
.57	42	0.41	12.32
.58	19	0.19	12.51
.59	30	0.29	12.81
.6	7	0.07	12.87
.61	46	0.45	13.33
.62	5	0.05	13.38
.63	74	0.73	14.10
.64	59	0.58	14.68
.65	38	0.37	15.06
.66	13	0.13	15.18
.67	33	0.32	15.51
.68	26	0.26	15.76
.69	38	0.37	16.14
.7	53	0.52	16.66
.71	31	0.30	16.96
.72	71	0.70	17.66
.73	54	0.53	18.19
.74	15	0.15	18.34
.75	23	0.23	18.57
.76	58	0.57	19.14
.77	43	0.42	19.56
.78	38	0.37	19.93
.79	8	0.08	20.01
.8	22	0.22	20.23
.81	15	0.15	20.37
.82	33	0.32	20.70
.83	30	0.29	20.99
.84	65	0.64	21.63
.85	38	0.37	22.00
.86	65	0.64	22.64
.87	45	0.44	23.09
.88	43	0.42	23.51
.89	23	0.23	23.73
.9	50	0.49	24.23
.91	36	0.35	24.58
.92	31	0.30	24.88
.93	33	0.32	25.21
	,	3 <b></b>	<b>_</b>

.94	22	0.22	25.43
.95	33	0.32	25.75
.96	19	0.19	25.94
.97	32	0.31	26.25
.98	30	0.29	26.55
.99	10	0.10	26.64
1	24	0.24	26.88
1.01	37	0.36	27.24
1.02	73	0.72	27.96
1.03	43	0.42	28.38
1.04	55		28.92
		0.54	
1.05	29	0.29	29.21
1.06	57	0.56	29.77
1.07	58	0.57	30.34
1.08	23	0.23	30.57
1.09	42	0.41	30.98
1.1	10	0.10	31.08
1.11	33	0.32	31.40
1.12	16	0.16	31.56
1.13	45	0.44	32.00
1.14	36	0.35	32.35
1.15	15	0.15	32.50
1.16	46	0.45	32.95
1.17	10	0.10	33.05
1.18	15	0.15	33.20
1.19	11	0.11	33.31
1.2	44	0.43	33.74
1.21	27	0.27	34.00
1.22	42	0.41	34.42
1.23	31	0.30	34.72
1.24	10	0.10	34.82
1.25	35	0.34	35.16
1.26	36	0.35	35.52
1.27	151	1.48	37.00
1.28	31	0.30	37.31
1.29	60	0.59	37.90
1.3	10	0.10	38.00
1.31	30	0.29	38.29
1.32	5	0.05	38.34
1.33	25	0.25	38.58
1.34	24	0.24	38.82
1.35	5	0.05	38.87
1.36	18	0.18	39.05
1.37	18	0.18	39.22
1.38	24	0.24	39.46
1.39	20	0.20	39.66
1.4	15	0.15	39.80
1.41	2	0.02	39.82
			40.10
1.42	28	0.28	
1.43	53	0.52	40.62
1.44	15	0.15	40.77
1.45	32	0.31	41.08
1.46	25	0.25	41.33
1.47	38	0.37	41.70
1.48	6	0.06	41.76
1.49	17	0.17	41.93
1.5	12	0.12	42.04
1.51	18	0.18	42.22
1.52	55	0.54	42.76
1.53	18	0.18	42.94
1.54	49	0.48	43.42
1.55	13	0.13	43.55
1.56	22	0.22	43.76
1.57	13	0.13	43.89
	29	0.29	
1.58			44.18
1.59	27	0.27	44.44
1.6	2	0.02	44.46

1.61	38	0.37	44.84
1.62		0.14	44.97
	14		
1.63	20	0.20	45.17
1.64	13	0.13	45.30
1.65	20	0.20	45.49
1.66			45.50
	1	0.01	
1.67	9	0.09	45.59
1.68	34	0.33	45.93
1.69	1	0.01	45.94
1.7	21	0.21	46.14
1.71	25	0.25	46.39
1.72	23	0.23	46.61
1.74	36	0.35	46.97
1.75	5	0.05	47.02
1.76	6	0.06	47.08
1.77	26	0.26	47.33
1.78	16	0.16	47.49
1.79	25	0.25	47.73
1.8	5	0.05	47.78
1.81	39	0.38	48.17
1.82	15	0.15	48.31
1.83	7	0.07	48.38
			48.47
1.84	9	0.09	
1.85	2	0.02	48.49
1.86	6	0.06	48.55
1.87	2	0.02	48.57
	10		48.67
1.88		0.10	
1.89	28	0.28	48.94
1.9	1	0.01	48.95
1.91	52	0.51	49.46
1.92	15	0.15	
			49.61
1.93	33	0.32	49.94
1.94	6	0.06	50.00
1.95	8	0.08	50.07
1.96	1	0.01	50.08
1.97	24	0.24	50.32
1.98	1	0.01	50.33
1.99	12	0.12	50.45
2	10	0.10	50.55
2.01	2	0.02	50.57
2.02	26	0.26	50.82
2.03	12	0.12	50.94
2.04	10	0.10	51.04
2.05	21	0.21	51.24
2.06	12	0.12	51.36
2.07	3	0.03	51.39
2.08	1	0.01	51.40
2.09	7	0.07	51.47
2.1	30	0.29	51.76
2.11	10	0.10	51.86
2.12	33	0.32	52.19
	7		52.26
2.13		0.07	
2.14	17	0.17	52.42
2.15	47	0.46	52.88
2.16	4	0.04	52.92
	1		52.93
2.17		0.01	
2.18	35	0.34	53.28
2.19	33	0.32	53.60
2.2	16	0.16	53.76
2.21	5	0.05	53.81
2.22	25	0.25	54.05
2.23	25	0.25	54.30
2.24	6	0.06	54.36
2.25	18	0.18	54.54
2.26	19	0.19	54.72
2.27	27	0.27	54.99
2.29	8	0.08	55.07

2.3	18	0.18	55.24
2.31	19	0.19	55.43
2.32	11	0.11	55.54
2.33	13	0.13	55.67
2.34	16	0.16	55.82
2.35	4	0.04	55.86
2.36	20	0.20	56.06
2.37	5	0.05	56.11
2.38	7	0.07	56.18
2.39	15	0.15	56.32
2.4	5	0.05	56.37
2.41	4	0.04	56.41
2.42	18	0.18	56.59
	9		
2.43		0.09	56.68
2.44	8	0.08	56.76
2.45	5	0.05	56.81
2.46	8	0.08	56.88
2.47	4	0.04	56.92
2.48	4	0.04	56.96
2.49	8	0.08	57.04
2.5	8	0.08	57.12
2.51	16	0.16	57.28
2.52	29	0.29	57.56
2.53	40	0.39	57.96
2.54	24	0.24	58.19
2.55	12	0.12	58.31
2.56	20	0.20	58.51
2.57	15	0.15	58.65
2.58	36	0.35	59.01
2.59	7	0.07	59.08
2.6	5	0.05	59.13
2.61	19	0.19	59.31
2.62	2		59.33
		0.02	
2.63	17	0.17	59.50
2.64	3	0.03	59.53
2.65	6	0.06	59.59
2.66	14	0.14	59.72
2.67	9	0.09	59.81
2.68	8	0.08	59.89
2.69	27	0.27	60.16
2.71	3	0.03	60.19
2.72	4	0.04	60.23
2.73	21	0.21	60.43
2.74	8	0.08	60.51
2.76	5	0.05	60.56
2.77	4	0.04	60.60
2.78	14	0.14	60.74
2.79	3	0.03	60.77
2.8	1	0.01	60.78
2.81	6	0.06	60.84
2.82	26	0.26	61.09
2.83	6	0.06	61.15
2.84	2	0.02	61.17
2.85	6	0.06	61.23
2.86	7	0.07	61.30
			61.54
2.87	25	0.25	
2.89	6	0.06	61.60
2.9	36	0.35	61.96
2.91	1	0.01	61.97
2.92	1	0.01	61.98
2.93	2	0.02	62.00
2.94	28	0.28	62.27
2.96	5	0.05	62.32
2.97	17	0.17	62.49
2.98	2	0.02	62.51
3	20	0.20	62.70
3.02	4	0.20	62.74
3.02		0.04	02.74

3.03	20	0.20	62.94
3.05	28	0.28	63.21
3.06	1	0.01	63.22
3.07	22	0.22	63.44
3.08	6	0.06	63.50
3.09	25	0.25	63.74
3.1	14	0.14	63.88
3.11	1	0.01	63.89
3.12	2	0.02	63.91
3.13	16	0.16	64.07
3.14	27	0.27	64.33
3.16	1	0.01	64.34
3.17	37	0.36	64.71
3.18	42	0.41	65.12
3.2	4	0.04	65.16
3.22	49	0.48	65.64
3.23	5	0.05	65.69
3.24	8	0.08	65.77
3.26	19	0.19	65.96
3.27	5	0.05	66.00
3.28	21	0.21	66.21
3.3	7	0.07	66.28
3.31	9	0.09	66.37
3.33	22	0.22	66.58
3.34	2	0.02	66.60
3.35	17	0.17	66.77
3.36	4	0.04	66.81
3.37	19	0.19	67.00
3.38	3	0.03	67.03
3.39	2	0.02	67.05
3.4	27	0.27	67.31
3.43	15	0.15	67.46
3.44	7	0.07	67.53
3.45	21	0.21	67.73
3.46	5	0.05	67.78
3.48	39	0.38	68.17
3.49	2	0.02	68.19
3.5	15	0.15	68.33
3.51	3	0.03	68.36
3.53	10	0.10	68.46
2 54			
3.54	14	0.14	68.60
3.55	5	0.05	68.65
3.56	11	0.11	68.76
3.57	5	0.05	68.81
3.58	31	0.30	69.11
3.6	10	0.10	69.21
3.61	15	0.15	69.36
3.62	1	0.01	69.37
3.63	38	0.37	69.74
3.64	2	0.02	69.76
3.65	3	0.03	69.79
3.66	4	0.04	69.83
3.67	4	0.04	69.87
			69.90
3.68	3	0.03	
3.69	3	0.03	69.93
3.7	1	0.01	69.94
3.72	3	0.03	69.97
3.74	6	0.06	70.02
3.75	3	0.03	70.05
3.76	1	0.01	70.06
3.77	13	0.13	70.19
3.79	29	0.29	70.48
3.8	2	0.02	70.50
3.81	31	0.30	70.80
3.82	33	0.32	71.13
3.83	3	0.03	71.15
3.84	24	0.24	71.39

3.86	8	0.08	71.47
3.87		0.26	71.72
	26		
3.88	1	0.01	71.73
3.89	8	0.08	71.81
3.9	3	0.03	71.84
3.91	2	0.02	71.86
3.92	17	0.17	72.03
3.93	11	0.11	72.14
3.94	7	0.07	72.21
3.95	2	0.02	72.23
3.96	15	0.15	72.37
3.97	3	0.03	72.40
3.98	4	0.04	72.44
3.99	1	0.01	72.45
4	2	0.02	72.47
4.03	7	0.07	72.54
4.04	18	0.18	72.72
4.05	2	0.02	72.74
4.06	8	0.08	72.82
4.07	9	0.09	72.90
4.09	1	0.01	72.91
4.1	18	0.18	73.09
4.11	5	0.05	73.14
4.12	6	0.06	73.20
4.13	15	0.15	73.35
4.14	3	0.03	73.38
4.16	15	0.15	73.52
4.17	4	0.04	73.56
4.18	4	0.04	73.60
4.19	66	0.65	74.25
4.2	2	0.02	74.27
4.25	43	0.42	74.69
4.26	3	0.03	74.72
4.28	16	0.16	74.88
4.3	27	0.27	75.14
4.32	3	0.03	75.17
4.35	38	0.37	75.55
4.36	2	0.02	75.57
4.38	6	0.06	75.63
4.4	6	0.06	75.69
4.42	3	0.03	75.71
4.43	3	0.03	75.74
4.44	2	0.02	75.76
4.45	13	0.13	75.89
4.46	2	0.02	75.91
4.48	9	0.09	76.00
4.5	2	0.02	
			76.02
4.51	14	0.14	76.16
4.53	10	0.10	76.26
4.54	1	0.01	76.27
4.55	10	0.10	76.36
4.58	2	0.02	76.38
4.61	38	0.37	76.76
4.63	1	0.01	76.77
4.64	9	0.09	76.86
4.66	2	0.02	76.87
4.67	27	0.27	77.14
4.69	9	0.09	77.23
4.7	3	0.03	77.26
4.71	5	0.05	77.31
4.72	12	0.12	77.43
4.77	20	0.20	77.62
4.79	4	0.04	77.66
4.8	2		
		0.02	77.68
4.81	3	0.03	77.71
4.82	4	0.04	77.75
4.83	1	0.01	77.76
	_		

4.84	22	0.22	77.98
4.86	8	0.08	78.05
4.87	1	0.01	78.06
4.88	10	0.10	78.16
4.9	9	0.09	78.25
4.92	3	0.03	78.28
4.93	5	0.05	78.33
4.96	1	0.01	78.34
4.97	2	0.02	78.36
4.99	1	0.01	78.37
5	1,416	13.92	92.29
•	785	7.71	100.00
Total	10,175	100.00	

518 .

519 . capture drop PIR

520 . gen PIR=.

(10,175 missing values generated)

521 . replace PIR=1 if INDFMPIR <1 (2,711 real changes made)

522 . replace PIR=2 if INDFMPIR>=1 & INDFMPIR<2 (2,422 real changes made)

523 . replace PIR=3 if INDFMPIR>=2 & INDFMPIR ~=. (4,257 real changes made)

524 .
525 . tab PIR, missing

	PIR	Freq.	Percent	Cum.
-	1	2,711	26.64	26.64
	2	2,422	23.80	50.45
	3	4,257	41.84	92.29
	•	785	7.71	100.00
	Total	10,175	100.00	

526 .

527 . 528 . \*\*EDUCATION, YEARS\*\*

529 .

530 . \*\*Less than 9th grade

531 . \*\*9-11th grade (Includes 12th grade with no diploma)

532 . \*\*High school graduate/GED or equivalent 533 . \*\*Some college or AA degree 534 . \*\*College graduate or above

535 .

536 .

537 . tab DMDEDUC2, missing

Education level - Adults 20+	Freq.	Percent	Cum.
1	455	4.47	4.47
2	791	7.77	12.25
3	1,303	12.81	25.05
4	1,770	17.40	42.45
5	1,443	14.18	56.63
7	2	0.02	56.65
9	5	0.05	56.70
	4,406	43.30	100.00

Total 10,175 100.00

538 .

539 . capture drop EDUCATION

540 . gen EDUCATION=DMDEDUC2

(4,406 missing values generated)

541 . replace EDUCATION=. if (DMDEDUC2==9 | DMDEDUC2==7) (7 real changes made, 7 to missing)

543 . tab EDUCATION, missing

EDUCATION	Freq.	Percent	Cum.
1	455	4.47	4.47
2	791	7.77	12.25
3	1,303	12.81	25.05
4	1,770	17.40	42.45
5	1,443	14.18	56.63
•	4,413	43.37	100.00
Total	10,175	100.00	

## 544 . su EDUCATION

Variable	0bs	Mean	Std. dev.	Min	Max
EDUCATION	5,762	3.512843	1.224465	1	5

545 .

546 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

547 .

548 .

550 .

551 . tab SMQ020, missing

Smoked at least 100 cigarettes in life	Freq.	Percent	Cum.
1	2,579	25.35	25.35
2	3,532	34.71	60.06
9	2	0.02	60.08
•	4,062	39.92	100.00
Total	10,175	100.00	

## 552 . tab SMQ040, missing

Do you now smoke cigarettes	Freq.	Percent	Cum.
1	992	9.75	9.75
2	240	2.36	12.11
3	1,347	13.24	25.35
•	7,596	74.65	100.00
Total	10,175	100.00	

553 .

554 . capture drop SMOKE

555 . gen SMOKE=.

(10,175 missing values generated)

556 . replace SMOKE=1 if SMQ020==2 (3,532 real changes made)

557 . replace SMOKE=2 if SMQ020==1 & SMQ040==3(1,347 real changes made)

558 . replace SMOKE=3 if SMQ020==1 & (SMQ040==1|SMQ040==2) (1,232 real changes made)

559 .

560 . tab SMOKE, missing

Cum.	Percent	Freq.	SMOKE
34.71	34.71	3,532	1
47.95	13.24	1,347	2
60.06	12.11	1,232	3
100.00	39.94	4,064	
	100.00	10,175	Total

561 .

562 .

563 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

564 . 565 .

568 .

569 . tab ALQ101, missing Had at

least 12 alcohol drinks/1 yr?	Freq.	Percent	Cum.
1	3,790	37.25	37.25
2	1,623	15.95	53.20
9	8	0.08	53.28
•	4,754	46.72	100.00
Total	10,175	100.00	

571 . capture drop ALCOHOL

572 . gen ALCOHOL=.

(10,175 missing values generated)

573 . replace ALCOHOL=1 if (ALQ101==1)
 (3,790 real changes made)

574 . replace ALCOHOL=2 if (ALQ101==2) (1,623 real changes made)

575 .

576 . tab ALCOHOL, missing

ALCOHOL	Freq.	Percent	Cum.
1	3,790	37.25	37.25
2	1,623	15.95	53.20
•	4,762	46.80	100.00
Total	10,175	100.00	

577 .

578

580 . tab1 DUQ200 DUQ240 DUQ290 DUQ330

## -> tabulation of DUQ200

Cum.	Percent	Freq.	Ever used marijuana or hashish
53.80	53.80	1,991	1
99.70	45.91	1,699	2
99.86	0.16	6	7
100.00	0.14	5	9
	100.00	3,701	Total

# -> tabulation of DUQ240

Ever used cocaine/her oin/methamp hetamine	Freq.	Percent	Cum.
1	723	15.93	15.93
2	3,800	83.70	99.63
7	10	0.22	99.85
9	7	0.15	100.00
Total	4,540	100.00	

## -> tabulation of DUQ290

Cum.	Percent	Freq.	Ever used heroin
15.21 99.72	15.21 84.51	110 611	1 2
100.00	0.28	2	9
	100.00	723	Total

# -> tabulation of DUQ330

Ever used methampheta mine	Freq.	Percent	Cum.
1	284	39.28	39.28
2	439	60.72	100.00
Total	723	100.00	

581 .

582 . capture drop DUQ200r DUQ240r DUQ290r DUQ330r

583 .

584 .

585 . foreach x of varlist DUQ200 DUQ240 DUQ290 DUQ330 { 2. gen `x'r=`x' if `x'~=7 & `x'~=9
3. }

(6,485 missing values generated) (5,652 missing values generated)

(9,454 missing values generated)

(9,452 missing values generated)

586 .

587 . tab1 DUQ200r DUQ240r DUQ290r DUQ330r

## -> tabulation of DUQ200r

Cum.	Percent	Freq.	DUQ200r
53.96	53.96	1,991	1
100.00	46.04	1,699	2
	100.00	3,690	Total

#### -> tabulation of DUQ240r

Cum.	Percent	Freq.	DUQ240r
15.98 100.00	15.98 84.02	723 3,800	1 2
	100.00	4,523	Total

## -> tabulation of DUQ290r

DUQ290r	Freq.	Percent	Cum.
1	110	15.26	15.26
2	611	84.74	100.00
Total	721	100.00	

## -> tabulation of DUQ330r

Cum.	Percent	Freq.	DUQ330r
39.28	39.28	284	1
100.00	60.72	439	2
	100.00	723	Total

588 . 589 . 590 .

591 . capture drop DRUG\_USER\_EVER

592 . gen DRUG\_USER\_EVER=.

(10,175 missing values generated)

593 . replace DRUG\_USER\_EVER=1 if DUQ200r==1 | DUQ240r==1 | DUQ290r==1 | DUQ330r==1 (2,130 real changes made)

594 . replace DRUG\_USER\_EVER=0 if DRUG\_USER\_EVER~=1
 (8,045 real changes made)

595 .

596 . tab DRUG\_USER\_EVER

Cum.	Freq. Percent		Freq. Percent		DRUG_USER_E VER
79.07 100.00	79.07 20.93	8,045 2,130	0 1		
	100.00	10,175	Total		

597 .

598 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

599 . 600 .

604 .

605 . /\*DASH component 1-8 scores\*/

606 .

607 . /\*use "H:\MANUSCRIPTS\_2018\_2019\MANSCRIPT\_12\_DASH\_MORTALITY\DATA\FULL\_DASH\_DIET\_DATASET\_MORTALITY\_LINKED\_B\_G.dta"\*/

608 .

609 . /\*Energy -- kcal\*/

610 .

611 . summ DR1TKCAL

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TKCAL	8,531	1964.539	984.4931	117	12108

612 . summ DR2TKCAL

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TKCAL	7,453	1839.988	883.9725	0	10591

613 .

614 . capture drop DR12TKCAL

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615 . gen DR12TKCAL=(DR1TKCAL+DR2TKCAL)/2 (2,726 missing values generated)

616 .

617 . su DR12TKCAL

	Variable	0bs	Mean	Std. dev.	Min	Max
_	DR12TKCAL	7,449	1904.067	803.862	96.5	10025

618 .

619 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

620 .

621 .

622 . /\*Saturated fat -- grams\*/

623 . 624 . summ DR1TSFAT

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TSFAT	8,531	24.76425	15.88331	0	177.467

625 . summ DR2TSFAT

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TSFAT	7,453	23.02986	15.24631	0	259.21

626 .

627 . 628 . capture drop DR12TSFAT

629 . gen DR12TSFAT=(DR1TSFAT+DR2TSFAT)/2 (2,726 missing values generated)

630 .

631 . su DR12TSFAT

Variable	0bs	Mean	Std. dev.	Min	Max
DR12TSFAT	7,449	23.94156	12.84116	.6	190.057

633 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

634 .

635 .

636 . capture drop SAT\_FAT\_DASH

637 . gen SAT\_FAT\_DASH=. (10,175 missing values generated) Wednesday April 24 11:52:23 2024 Page 36

638 . replace SAT\_FAT\_DASH=(DR12TSFAT\*9)/DR12TKCAL\*100
(7,449 real changes made)

639 .

640 . summ SAT\_FAT\_DASH

Variable	0bs	Mean	Std. dev.	Min	Max
SAT_FAT_DASH	7,449	11.25617	3.33631	1.698113	32.18073

641 .

642 . capture drop SAT\_FAT\_DASH\_BR

643 . gen SAT\_FAT\_DASH\_BR=.
 (10,175 missing values generated)

644 . replace SAT\_FAT\_DASH\_BR=1 if SAT\_FAT\_DASH <=6 (324 real changes made)

645 . replace SAT\_FAT\_DASH\_BR=0.5 if (SAT\_FAT\_DASH >6 & SAT\_FAT\_DASH<=11) (3,339 real changes made)

646 . replace SAT\_FAT\_DASH\_BR=0 if (SAT\_FAT\_DASH>11 & SAT\_FAT\_DASH~=.) (3,786 real changes made)

647 .

648 . tab SAT\_FAT\_DASH\_BR, missing

SAT_FAT_DAS H_BR	Freq.	Percent	Cum.
0	3,786	37.21	37.21
.5	3,339	32.82	70.02
1	324	3.18	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

649 . 650 .

651 . /\*Total fat -- grams\*/

652 .

653 . summ DR1TTFAT

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TTFAT	8,531	75.0988	45.50421	0	548.38

654 . summ DR2TTFAT

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TTFAT	7,453	69.12929	40.95999	0	530.22

655 .

656 . capture drop DR12TTFAT

657 . gen DR12TTFAT=(DR1TTFAT+DR2TTFAT)/2 (2,726 missing values generated)

658 .

659 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

660 .

661 .

662 . capture drop TOT\_FAT\_DASH

663 . gen TOT\_FAT\_DASH=.

(10,175 missing values generated)

664 . replace TOT\_FAT\_DASH=(DR12TTFAT\*9)/DR12TKCAL\*100
(7,449 real changes made)

665 .

666 . summ TOT\_FAT\_DASH

Variable	0bs	Mean	Std. dev.	Min	Max
TOT FAT DASH	7,449	33.78169	6.991296	6.877359	68.0814

667 .

668 . capture drop TOT\_FAT\_DASH\_BR

669 . gen TOT\_FAT\_DASH\_BR=.
 (10,175 missing values generated)

670 . replace TOT\_FAT\_DASH\_BR=1 if TOT\_FAT\_DASH <=27 (1,162 real changes made)

671 . replace TOT\_FAT\_DASH\_BR=0.5 if (TOT\_FAT\_DASH >27 & TOT\_FAT\_DASH<=32) (1,857 real changes made)

672 . replace TOT\_FAT\_DASH\_BR=0 if (TOT\_FAT\_DASH >32 & TOT\_FAT\_DASH ~=.) (4,430 real changes made)

673 .

674 . tab TOT\_FAT\_DASH\_BR, missing

TOT_FAT_DAS H_BR	Freq.	Percent	Cum.
0	4,430	43.54	43.54
.5	1,857	18.25	61.79
1	1,162	11.42	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

Std. dev.

44.72318

Std. dev.

41.44096

Mean

Mean

Mean

15.65494

Std. dev.

4.445737

73.4317

74.53671

Min

Min

Min

2.021305

Max

56.15414

0

0

Max

Max

474.19

869.49

```
676 .
677 . /*Protein -- grams*/
678 .
679 . summ DR1TPROT
        Variable
                          0bs
        DR1TPROT
                        8,531
680 . summ DR2TPROT
        Variable
                          0bs
        DR2TPROT
                        7,453
681 .
682 . capture drop DR12TPROT
683 . gen DR12TPROT=(DR1TPROT+DR2TPROT)/2
    (2,726 missing values generated)
685 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
687 . capture drop PROT_DASH
```

688 . gen PROT\_DASH=.

691 . summ PROT\_DASH

Variable

PROT\_DASH

694 . gen PROT\_DASH\_BR=.

693 . capture drop PROT\_DASH\_BR

(1,816 real changes made)

(852 real changes made)

(4,781 real changes made)

(10,175 missing values generated)

690 .

692 .

(10,175 missing values generated)

(7,449 real changes made)

689 . replace PROT\_DASH=(DR12TPROT\*4)/DR12TKCAL\*100

0bs

695 . replace PROT\_DASH\_BR=1 if PROT\_DASH >=18 & PROT\_DASH~=.

696 . replace PROT\_DASH\_BR=0.5 if (PROT\_DASH <18 & PROT\_DASH>=16.5)

697 . replace PROT\_DASH\_BR=0 if (PROT\_DASH <16.5 & PROT\_DASH ~=.)

7,449

698 .

699 . tab PROT\_DASH\_BR, missing

PROT_DASH_B R	Freq.	Percent	Cum.
0	4,781	46.99	46.99
.5	852	8.37	55.36
1	1,816	17.85	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

700 .

701 .

702 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

703 .

704 . /\*Cholesterol -- mg\*/

705 .

706 . summ DR1TCHOL

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TCHOL	8,531	262.3687	233.5791	0	3515

707 . summ DR2TCHOL

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TCHOL	7,453	251.3217	217.941	0	2666

708

709 . capture drop DR12TCHOL

710 . gen DR12TCHOL=(DR1TCHOL+DR2TCHOL)/2
 (2,726 missing values generated)

711 .

712 .

713 .

714 . capture drop CHOL\_DASH

715 . gen CHOL\_DASH=.
 (10,175 missing values generated)

716 . replace CHOL\_DASH=(DR12TCHOL/DR12TKCAL)\*1000 (7,449 real changes made)

717 .

718 . summ CHOL\_DASH

Variable	Obs	Mean	Std. dev.	Min	Max
CHOL DASH	7,449	133.6302	77.58005	0	721.2176

719 .

720 . capture drop CHOL\_DASH\_BR

721 . gen CHOL\_DASH\_BR=. (10,175 missing values generated)

722 . replace CHOL\_DASH\_BR=1 if CHOL\_DASH <=71.4
 (1,394 real changes made)</pre>

723 . replace CHOL\_DASH\_BR=0.5 if (CHOL\_DASH >71.4 & CHOL\_DASH<=107.1) (1,888 real changes made)

724 . replace CHOL\_DASH\_BR=0 if (CHOL\_DASH >107.1) & CHOL\_DASH ~=. (4,167 real changes made)

725 .

726 . tab CHOL\_DASH\_BR, missing

CHOL_DASH_B R	Freq. Percent		Cum.
0	4,167	40.95	40.95
.5	1,888	18.56	59.51
1	1,394	13.70	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

727 .

728 . /\*Fiber -- g\*/

729 .

730 . summ DR1TFIBE

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TFIBE	8,531	15.27804	10.13266	0	136.3

731 . summ DR2TFIBE

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TFIBE	7,453	15.42759	10.22192	0	134.8

732 .

733 .

734 . capture drop DR12TFIBE

735 . gen DR12TFIBE=(DR1TFIBE+DR2TFIBE)/2
 (2,726 missing values generated)

736 .

737 .

738 . capture drop FIB\_DASH

739 . gen FIB\_DASH=.

(10,175 missing values generated)

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740 . replace FIB\_DASH=(DR12TFIBE/DR12TKCAL)\*1000 (7,449 real changes made)

741 .

742 . summ FIB\_DASH

Variable	Obs	Mean	Std. dev.	Min	Max
FIB_DASH	7,449	8.250123	3.735244	0	41.61869

743 .

744 . capture drop FIB\_DASH\_BR

745 . gen FIB\_DASH\_BR=.
 (10,175 missing values generated)

746 . replace FIB\_DASH\_BR=1 if FIB\_DASH >=14.8 & FIB\_DASH ~=. (376 real changes made)

747 . replace FIB\_DASH\_BR=0.5 if (FIB\_DASH <14.8 & FIB\_DASH>=9.5) (1,811 real changes made)

748 . replace FIB\_DASH\_BR=0 if (FIB\_DASH <9.5 & FIB\_DASH ~=.) (5,262 real changes made)

749 .

750 . tab FIB\_DASH\_BR, missing

FIB_DASH_BR	Freq.	Percent	Cum.
0	5,262	51.71	51.71
.5	1,811	17.80	69.51
1	376	3.70	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

751

752 . /\*Magnesium -- mg\*/

753 .

754 . summ DR1TMAGN

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TMAGN	8,531	264.4613	149.0214	0	2725

755 . summ DR2TMAGN

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TMAGN	7,453	260.2704	141.3616	0	1912

756 .

757

758 . capture drop DR12TMAGN

759 . gen DR12TMAGN=(DR1TMAGN+DR2TMAGN)/2
 (2,726 missing values generated)

760 . 761 .

762 .

763 . capture drop MAG\_DASH

764 . gen MAG\_DASH=.

(10,175 missing values generated)

765 . replace MAG\_DASH=(DR12TMAGN/DR12TKCAL)\*1000
(7,449 real changes made)

766 .

767 . summ MAG\_DASH

Variable	0bs	Mean	Std. dev.	Min	Max
MAG DASH	7,449	141.2791	44.08901	28.81041	539.4514

768

769 . capture drop MAG\_DASH\_BR

770 . gen MAG\_DASH\_BR=.

(10,175 missing values generated)

771 . replace MAG\_DASH\_BR=1 if MAG\_DASH >=238 & MAG\_DASH  $\sim$ =. (269 real changes made)

772 . replace MAG\_DASH\_BR=0.5 if (MAG\_DASH <238 & MAG\_DASH>=158)
 (1,783 real changes made)

773 . replace MAG\_DASH\_BR=0 if (MAG\_DASH <158)
 (5,397 real changes made)</pre>

774

775 . tab MAG\_DASH\_BR, missing

MAG_DASH_BR	Freq.	Percent	Cum.
0	5,397	53.04	53.04
.5	1,783	17.52	70.57
1	269	2.64	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

776 .

777 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

778 .

779 . /\*Calcium -- mg\*/

780 .

#### 781 . summ DR1TCALC

	Variable	0bs	Mean	Std. dev.	Min	Max
	DR1TCALC	8,531	934.2482	578.0352	6	7337
2	. summ DR2TCALC					

782 . summ DR2TCALC

Variable	Obs	Mean	Std. dev.	Min	Max
DR2TCALC	7,453	933.9057	596.7542	0	11164

783 .

784 .

785 . capture drop DR12TCALC

786 . gen DR12TCALC=(DR1TCALC+DR2TCALC)/2 (2,726 missing values generated)

788 . capture drop CAL\_DASH

789 . gen CAL\_DASH=. (10,175 missing values generated)

790 . replace CAL\_DASH=(DR2TCALC/DR12TKCAL)\*1000 (7,449 real changes made)

791 .

792 .

793 . capture drop CAL\_DASH

794 . gen CAL\_DASH=. (10,175 missing values generated)

795 . replace CAL\_DASH=(DR12TCALC/DR12TKCAL)\*1000 (7,449 real changes made)

796 .

797 . summ CAL\_DASH

Variable	0bs	Mean	Std. dev.	Min	Max
CAL_DASH	7,449	514.6868	218.827	52.19553	2379.53

798 .

799 . capture drop CAL\_DASH\_BR

800 . gen CAL\_DASH\_BR=. (10,175 missing values generated)

801 . replace CAL\_DASH\_BR=1 if CAL\_DASH >=590 & CAL\_DASH  $\sim$ =. (2,295 real changes made)

802 . replace CAL\_DASH\_BR=0.5 if (CAL\_DASH <590 & CAL\_DASH>=402) (2,655 real changes made)

804 .

805 . tab CAL\_DASH\_BR, missing

CAL_DASH_BR	Freq.	Percent	Cum.
0	2,499	24.56	24.56
.5	2,655	26.09	50.65
1	2,295	22.56	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

806 .

807 .

808 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

809 .

810 . /\*Potassium -- mg\*/

811 .

812 . summ DR1TPOTA

Variable	0bs	Mean	Std. dev.	Min	Max
DR1TPOTA	8,531	2358.753	1214.393	68	15876

813 . summ DR2TPOTA

Variable	Obs	Mean	Std. dev.	Min	Max
DR2TPOTA	7,453	2354.313	1186.952	0	19663

814 .

815 .

816 . capture drop DR12TPOTA

817 . gen DR12TPOTA=(DR1TPOTA+DR2TPOTA)/2
 (2,726 missing values generated)

818 .

819 .

820 .

821 . capture drop POT\_DASH

822 . gen POT\_DASH=.

(10,175 missing values generated)

824 .

825 . summ POT\_DASH

Variable	0bs	Mean	Std. dev.	Min	Max
 POT_DASH	7,449	1280.659	372.5777	392.7966	4360.613

826 .

827 . capture drop POT\_DASH\_BR

828 . gen POT\_DASH\_BR=.

(10,175 missing values generated)

829 . replace POT\_DASH\_BR=1 if POT\_DASH >=2238 & POT\_DASH ~=. (149 real changes made)

830 . replace POT\_DASH\_BR=0.5 if (POT\_DASH <2238 & POT\_DASH>=1534) (1,441 real changes made)

831 . replace POT\_DASH\_BR=0 if (POT\_DASH <1534) (5,859 real changes made)

832 .

833 . tab POT\_DASH\_BR, missing

POT_DASH_BR	Freq.	Percent	Cum.
0	5,859	57.58	57.58
.5	1,441	14.16	71.74
1	149	1.46	73.21
•	2,726	26.79	100.00
Total	10,175	100.00	

834 .

835 .

836 . /\*Sodium\*/

837 . 838 . summ DR1TSODI

Variable	0bs	Mean	Std. dev.	Min	Max
 DR1TSODI	8,531	3178.13	1818.145	17	21399

839 . summ DR2TSODI

Variable	0bs	Mean	Std. dev.	Min	Max
DR2TSODI	7,453	3051.957	1689.761	0	20683

840 .

841 .

842 .

843 . capture drop DR12TSODI

844 . gen DR12TSODI=(DR1TSODI+DR2TSODI)/2 (2,726 missing values generated)

845 .

846 .

847 . capture drop SOD\_DASH

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848 . gen SOD\_DASH=.

(10,175 missing values generated)

849 . replace SOD\_DASH=(DR12TSODI/DR12TKCAL)\*1000
(7,449 real changes made)

850 . 851 .

852 . summ SOD\_DASH

Variable	Obs	Mean	Std. dev.	Min	Max
SOD_DASH	7,449	1636.255	468.0715	189.589	8515.513

853 .

854 . capture drop SOD\_DASH\_BR

855 . gen SOD\_DASH\_BR=.

(10,175 missing values generated)

856 . replace SOD\_DASH\_BR=1 if SOD\_DASH <=1143
 (666 real changes made)</pre>

857 . replace SOD\_DASH\_BR=0.5 if (SOD\_DASH >1143 & SOD\_DASH<=1286)
 (652 real changes made)</pre>

858 . replace SOD\_DASH\_BR=0 if (SOD\_DASH >1286) & SOD\_DASH  $\sim$ =. (6,131 real changes made)

859

860 . tab SOD\_DASH\_BR, missing

SOD_DASH_BR	Freq.	Percent	Cum.
0	6,131	60.26	60.26
.5	652	6.41	66.66
1	666	6.55	73.21
	2,726	26.79	100.00
Total	10,175	100.00	

861 .

862 . /\*DASH total score\*/

863

864 . capture drop DASH\_TOTAL\_SCORE

865 . gen DASH\_TOTAL\_SCORE = SAT\_FAT\_DASH\_BR+TOT\_FAT\_DASH\_BR+PROT\_DASH\_BR+CHOL\_DASH\_BR+FIB\_DASH\_BR+MAG\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL\_DASH\_BR+CAL

866 .

867 . tab DASH\_TOTAL\_SCORE

DASH_TOTAL_ SCORE	Freq.	Percent	Cum.
0	276	3.71	3.71
.5	700	9.40	13.10
1	1,035	13.89	27.00
1.5	1,154	15.49	42.49
2	1,044	14.02	56.50
2.5	854	11.46	67.97
3	786	10.55	78.52
3.5	567	7.61	86.13
4	380	5.10	91.23
4.5	262	3.52	94.75
5	145	1.95	96.70
5.5	121	1.62	98.32

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6.5 7 7.5 8	50 34 26 11 2	0.67 0.46 0.35 0.15 0.03 0.01	98.99 99.45 99.80 99.95 99.97
8.5 9	1 1	0.01 0.01	99.99 100.00
Total	7,449	100.00	

869 . capture drop DASH\_TOTAL\_SCORE\_BR

870 . gen DASH\_TOTAL\_SCORE\_BR=. (10,175 missing values generated)

871 . replace DASH\_TOTAL\_SCORE\_BR=1 if DASH\_TOTAL\_SCORE<4.5 (6,796 real changes made)

872 . replace DASH\_TOTAL\_SCORE\_BR=0 if DASH\_TOTAL\_SCORE>=4.5 & DASH\_TOTAL\_SCORE ~=. (653 real changes made)

873 .

874 . tab DASH\_TOTAL\_SCORE\_BR

DASH_TOTAL_ SCORE_BR	Freq.	Percent	Cum.
0	653	8.77	8.77
1	6,796	91.23	100.00
Total	7,449	100.00	

876 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

877 . 878 .

879 .

882 . capture rename paq605-paq772c, upper

884 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

885 . 886 .

887 . tab PAQ605, missing

Cum.	Percent	Freq.	Vigorous work activity
11.52	11.52	1,172	1
70.24	58.72	5,975	2
70.25	0.01	1	7
100.00	29.75	3,027	•
	100.00	10,175	Total

888 . tab PAQ620, missing

	Moderate work activity	Freq.	Percent	Cum.
	1	2,308	22.68	22.68
	2	4,837	47.54	70.22
	7	1	0.01	70.23
	9	2	0.02	70.25
	•	3,027	29.75	100.00
-	Total	10.175	100.00	

# 889 . tab PAQ635, missing

Cum.	Percent	Freq.	Walk or bicycle
20.12	20.12	2,047	1
70.23	50.11	5,099	2
70.24	0.01	1	9
100.00	29.76	3,028	
	100.00	10,175	Total

# 890 . tab PAQ650, missing

Cum.	Percent	Freq.	Vigorous recreationa 1 activities
20.24	20.24	2,059	1
70.23	50.00	5,087	2
70.24	0.01	1	9
100.00	29.76	3,028	
	100.00	10,175	Total

# 891 . tab PAQ665, missing

Moderate recreationa 1 activities	Freq.	Percent	Cum.
1	3,059	30.06	30.06
2	4,084	40.14	70.20
9	2	0.02	70.22
•	3,030	29.78	100.00
Total	10,175	100.00	

893 . capture drop PHYSICAL

894 . gen PHYSICAL=.
 (10,175 missing values generated)

895 . replace PHYSICAL=1 if (PAQ605==1 | PAQ620==1 | PAQ650==1 | PAQ665==1 | PAQ635) (10,175 real changes made)

896 . replace PHYSICAL=0 if PAQ605==2 & PAQ620==2 & PAQ650==2 & PAQ665==2 & PAQ635==2 (1,697 real changes made)

897 .

898 . tab1 PAQ670 PAQ655 PAQ640 PAQ625 PAQ610

## -> tabulation of PAQ670

Days moderate recreationa 1			
activities	Freq.	Percent	Cum.
1	415	13.57	13.57
2	603	19.71	33.28
3	732	23.93	57.21
4	318	10.40	67.60
5	537	17.55	85.16
6	105	3.43	88.59
7	346	11.31	99.90
99	3	0.10	100.00
Total	3,059	100.00	

#### -> tabulation of PAQ655

Days vigorous recreationa l activities	Freq.	Percent	Cum.
1	218	10.59	10.59
2	388	18.85	29.45
3	493	23.96	53.40
4	295	14.33	67.74
5	417	20.26	88.00
6	112	5.44	93.44
7	133	6.46	99.90
99	2	0.10	100.00
Total	2,058	100.00	

Number of days walk or bicycle	Freq.	Percent	Cum.
1	115	5.62	5.62
2	209	10.21	15.83
3	263	12.85	28.68
4	162	7.91	36.59
5	563	27.50	64.09
6	108	5.28	69.37
7	627	30.63	100.00
Total	2,047	100.00	

Number of days moderate work	Freq.	Percent	Cum.
1	181	7.85	7.85
2	299	12.96	20.81
3	374	16.21	37.02
4	241	10.45	47.46
5	747	32.38	79.84
6	146	6.33	86.17
7	315	13.65	99.83
77	1	0.04	99.87
99	3	0.13	100.00
Total	2,307	100.00	

Number of days vigorous work	Freq.	Percent	Cum.
1	130	11.09	11.09
2	166	14.16	25.26
3	183	15.61	40.87
4	110	9.39	50.26
5	373	31.83	82.08
6	100	8.53	90.61
7	109	9.30	99.91
99	1	0.09	100.00
Total	1,172	100.00	

Variable	Storage	Display	Value	
name	type	format	label	Variable label
PAQ605	double	%10.0g		Vigorous work activity
PAQ610		%10.0g		Number of days vigorous work
PAQ620		%10.0g		Moderate work activity
PAQ625		%10.0g		Number of days moderate work
PAQ635		%10.0g		Walk or bicycle
PAQ640		%10.0g		Number of days walk or bicycle
PAQ650		%10.0g		Vigorous recreational activities
PAQ655		%10.0g %10.0g		Days vigorous recreational activities Moderate recreational activities
PAQ665 PAQ670		%10.0g %10.0g		Days moderate recreational activities
PAQ706		%10.0g %10.0g		Days physically active at least 60 min.
PAQ710		%10.0g		Hours watch TV or videos past 30 days
PAQ715		%10.0g		Hours use computer past 30 days
PAQ722		%10.0g		Any physical activities past 7 days
PAQ724A		%10.0g		Physical activity aerobics
PAQ724B		%10.0g		Physical activity baseball
PAQ724C	double	%10.0g		Physical activity basketball
PAQ724D		%10.0g		Physical activity bike riding
PAQ724E		%10.0g		Physical activity cheerleading
PAQ724F		%10.0g		Physical activity dance
PAQ724G		%10.0g		Physical activity field hockey
PAQ724H		%10.0g		Physical activity football Physical activity golf
PAQ724I PAQ724J		%10.0g %10.0g		Physical activity goir Physical activity gymnastics
PAQ7245 PAQ724K		%10.0g %10.0g		Physical activity hiking
PAQ724K		%10.0g %10.0g		Physical activity lice hockey
PAQ724M		%10.0g		Physical activity ice skating
PAQ724N		%10.0g		Physical activity jumping rope
PAQ7240		%10.0g		Physical activity lacrosse
PAQ724P	double	%10.0g		Physical activity martial arts
PAQ724Q	double	%10.0g		Physical activity playing games
PAQ724R		%10.0g		Physical activity roller blading
PAQ724S		%10.0g		Physical activity running
PAQ724T		%10.0g		Physical activity scooter riding
PAQ724U		%10.0g		Physical activity skateboarding
PAQ724V PAQ724W		%10.0g %10.0g		Physical activity soccer Physical activity swimming
PAQ724W PAQ724X		%10.0g %10.0g		Physical activity tennis
PAQ724Y		%10.0g		Physical activity track & field
PAQ724Z		%10.0g		Physical activity volleyball
PAQ724AA	double	%10.0g		Physical activity walking
PAQ724AB	double	%10.0g		Physical activity wrestling
PAQ724AC	double	%10.0g		Physical activity frisbee
PAQ724AD		%10.0g		Physical activity backyard games
PAQ724AE		%10.0g		Physical activity trampoline
PAQ724AF		%10.0g		Physical activity horseback riding
PAQ724CM PAQ731		%10.0g		Physical activity other Days played active video games
PAQ731 PAQ677		%10.0g %10.0g		Past wk # days cardiovascular exercise
PAQ678		%10.0g %10.0g		Past wk # days strengthened muscles
PAQ740		%10.0g		Use school facilities at lunch
PAQ742		%10.0g		Use school facilities for physical activ
PAQ744		%10.0g		Have PE during school days?
PAQ746	double	%10.0g		How often do you have PE or gym?
PAQ748		%10.0g		How long is the PE or gym class?
PAQ755		%10.0g		Participate in school sports?
PAQ759A		%10.0g		Participate in baseball
PAQ759B		%10.0g		Participate in basketball
PAQ759C		%10.0g		Participate in bocce ball
PAQ759D		%10.0g		Participate in cheerleading
PAQ759E PAQ759F		%10.0g %10.0g		Participate in football Participate in golf
PAQ759F PAQ759G		%10.0g %10.0g		Participate in goir Participate in gymnastics
PAQ759H		%10.0g %10.0g		Participate in hockey

PAQ759I	double %10.0	g Participate in lacrosse
PAQ759J	double %10.0	
PAQ759K	double %10.0	g Participate in swimming/diving
PAQ759L	double %10.0	g Participate in tennis
PAQ759M	double %10.0	g Participate in track and field
PAQ759N	double %10.0	g Participate in volleyball
PAQ7590	double %10.0	
PAQ759P	double %10.0	g Participate in other specify
PAQ759Q	double %10.0	g Participate in dance
PAQ759R	double %10.0	g Participate in frisbee
PAQ759S	double %10.0	g Participate in running
PAQ759T	double %10.0	g Participate in trampoline
PAQ759U	double %10.0	g Participate in martial arts
PAQ759V	double %10.0	g Participate in walking
PAQ762	double %10.0	g Do you have recess during school?
PAQ764	double %10.0	g How often do you have recess?
PAQ766	double %10.0	g How long is the recess period?
PAQ679	double %10.0	g How much exercise for good health
PAQ750	double %10.0	g Enjoy participating in PE or recess
PAQ770	double %10.0	g Receive physical fitness award past yr
PAQ772A	double %10.0	g Fitness award Fitnessgram
PAQ772B	double %10.0	g Fitness award President's Challenge
PAQ772C	double %10.0	g Fitness award other specify
PAQ670r	float %9.0g	
PAQ655r	float %9.0g	
PAQ640r	float %9.0g	
PAQ625r	float %9.0g	
PAQ610r	float %9.0g	
PAD615	double %10.0	g Minutes vigorous-intensity work
PAD630	double %10.0	g Minutes moderate-intensity work
PAD645	double %10.0	
PAD660	double %10.0	g Minutes vigorous recreational activities
PAD675	double %10.0	g Minutes moderate recreational activities
PAD680	double %10.0	g Minutes sedentary activity
PAD733	double %10.0	
906 .		
907 .		
908 . **PAD615	double %	
909 . **PAD630	double %	
910 . **PAD645	double %	
911 . **PAD660	double %	S S
912 . **PAD675	double %	
913 . **PAD680	double %	
914 . **PAD733	double %	10.0g Minutes play active video games
915 .		
916 . su PAD615	PAD630 PAD645 PAD	660 PAD675 PAD680 PAD733

916 . su PAD615 PAD630 PAD645 PAD660 PAD675 PAD680 PAD733

Variable	Obs	Mean	Std. dev.	Min	Max
PAD615	1,168	187.5086	433.8161	10	9999
PAD630	2,299	152.8164	379.6938	10	9999
PAD645	2,043	71.95839	387.5661	10	9999
PAD660	2,055	91.97129	383.0116	10	9999
PAD675	3,056	63.2091	59.69457	10	900
PAD680	7,139	478.549	644.3079	0	9999
PAD733	798	106.1241	499.8816	5	9999

917 . 918 . tab1 PAD615 PAD630 PAD645 PAD660 PAD675 PAD680 PAD733

## -> tabulation of PAD615

Minutes vigorous-in tensity			
work	Freq.	Percent	Cum.
10	46	3.94	3.94
12	3	0.26	4.20
15	32	2.74	6.93
20	27	2.31	9.25
21	1	0.09	9.33
25	2	0.17	9.50
30	91	7.79	17.29
35	2	0.17	17.47
40	10	0.86	18.32
45	20	1.71	20.03
60	197	16.87	36.90
75	1	0.09	36.99
90	22	1.88	38.87
120	212	18.15	57.02
130	1	0.09	57.11
160	1	0.09	57.19
180	135	11.56	68.75
240	136	11.64	80.39
300	53	4.54	84.93
360	60	5.14	90.07
420	12	1.03	91.10
480	64	5.48	96.58
540	13	1.11	97.69
600	15	1.28	98.97
660	3	0.26	99.23
720	5	0.43	99.66
840	1	0.09	99.74
1080	1	0.09	99.83
9999	2	0.17	100.00
Total	1,168	100.00	

Minutes moderate-in tensity work	Freq.	Percent	Cum.
10	104	4.52	4.52
12	1	0.04	4.57
15	82	3.57	8.13
16	2	0.09	8.22
19	1	0.04	8.26
20	98	4.26	12.53
25	9	0.39	12.92
29	1	0.04	12.96
30	247	10.74	23.71
31	1	0.04	23.75
35	1	0.04	23.79
40	20	0.87	24.66
45	40	1.74	26.40
50	1	0.04	26.45
55	2	0.09	26.53
60	439	19.10	45.63
65	1	0.04	45.67
70	1	0.04	45.72

	l .		
80	2	0.09	45.80
90	46	2.00	47.80
120	421	18.31	66.12
150	3	0.13	66.25
160	1	0.04	66.29
180	207	9.00	75.29
240	263	11.44	86.73
300	84	3.65	90.39
360	76	3.31	93.69
420	29	1.26	94.95
480	78	3.39	98.35
540	6	0.26	98.61
600	18	0.78	99.39
660	1	0.04	99.43
720	9	0.39	99.83
900	1	0.04	99.87
9999	3	0.13	100.00
Total	2,299	100.00	

Minutes walk/bicycl e for transportat ion	Freq.	Percent	Cum.
10	239	11.70	11.70
11	2	0.10	11.80
12	5	0.24	12.04
13	3	0.15	12.19
14	3	0.15	12.33
15	176	8.61	20.95
16	1	0.05	21.00
18	1	0.05	21.05
20	275	13.46	34.51
22	1	0.05	34.56
25	34	1.66	36.22
27	1	0.05	36.27
30	393	19.24	55.51
35	9	0.44	55.95
37	1	0.05	56.00
40	62	3.03	59.03
45	74	3.62	62.65
46	1	0.05	62.70
50	7	0.34	63.04
60	369	18.06	81.11
90	42	2.06	83.16
95	1	0.05	83.21
115	1	0.05	83.26
120	193	9.45	92.71
130	1	0.05	92.76
180	66	3.23	95.99
240	43	2.10	98.09
300	12	0.59	98.68
360	8	0.39	99.07
420	3	0.15	99.22
480	7	0.34	99.56
600	2	0.10	99.66
720	2	0.10	99.76
840	2	0.10	99.85
9999	3	0.15	100.00
Total	2,043	100.00	

Minutes vigorous			
recreationa l			
activities	Freq.	Percent	Cum.
10	38	1.85	1.85
11	1	0.05	1.90
12	2	0.10	2.00
14	2	0.10	2.09
15	39	1.90	3.99
18	1	0.05	4.04
20	73	3.55	7.59
25	17	0.83	8.42
29	1	0.05	8.47
30	287	13.97	22.43
31	1	0.05	22.48
35	8	0.39	22.87
40	57	2.77	25.64
44	1	0.05	25.69
45	160	7.79	33.48
46	1	0.05	33.53
47	3	0.15	33.67
50	13	0.63	34.31
55	2	0.10	34.40
60	600	29.20	63.60
70	4	0.19	63.80
72	1	0.05	63.84
75	12 4	0.58 0.19	64.43 64.62
80 85	1		
90	163	0.05 7.93	64.67 72.60
105	2	0.10	72.70
115	1	0.05	72.75
120	369	17.96	90.71
150	6	0.29	91.00
180	116	5.64	96.64
240	44	2.14	98.78
270	1	0.05	98.83
300	13	0.63	99.46
330	1	0.05	99.51
360	5	0.24	99.76
480	1	0.05	99.81
600	1	0.05	99.85
9999	3	0.15	100.00
Total	2,055	100.00	

Minutes moderate recreationa 1 activities	Freg.	Percent	Cum.
10	95	3.11	3.11
12	2	0.07	3.17
13	1	0.03	3.21
15	138	4.52	7.72
16	1	0.03	7.76
20	252	8.25	16.00
22	1	0.03	16.03
25	37	1.21	17.24
30	695	22.74	39.99

35	16	0.52	40.51
39	1	0.03	40.54
40	65	2.13	42.67
45	190	6.22	48.89
50	24	0.79	49.67
53	1	0.03	49.71
55	2	0.07	49.77
60	892	29.19	78.96
65	1	0.03	78.99
70	7	0.23	79.22
75	5	0.16	79.38
80	2	0.07	79.45
85	1	0.03	79.48
90	106	3.47	82.95
100	1	0.03	82.98
115	1	0.03	83.02
120	318	10.41	93.42
135	1	0.03	93.46
150	7	0.23	93.68
180	90	2.95	96.63
210	1	0.03	96.66
240	64	2.09	98.76
300	19	0.62	99.38
360	6	0.20	99.57
420	2	0.07	99.64
480	8	0.26	99.90
540	1	0.03	99.93
600	1	0.03	99.97
900	1	0.03	100.00
Total	3,056	100.00	

Minutes sedentary activity	Freq.	Percent	Cum.
0	1	0.01	0.01
1	2	0.03	0.04
5	2	0.03	0.07
10	1	0.01	0.08
15	4	0.06	0.14
20	4	0.06	0.20
25	1	0.01	0.21
30	14	0.20	0.41
45	2	0.03	0.43
60	116	1.62	2.06
81	1	0.01	2.07
90	11	0.15	2.23
105	1	0.01	2.24
120	372	5.21	7.45
150	3	0.04	7.49
180	435	6.09	13.59
240	620	8.68	22.27
300	584	8.18	30.45
360	694	9.72	40.17
420	363	5.08	45.26
480	1,604	22.47	67.73
490	1	0.01	67.74
540	476	6.67	74.41
600	868	12.16	86.57
660	158	2.21	88.78
720	448	6.28	95.06
780	63	0.88	95.94
840	104	1.46	97.39
900	74	1.04	98.43

i			
960	54	0.76	99.19
1020	8	0.11	99.30
1080	17	0.24	99.54
1140	1	0.01	99.55
1200	2	0.03	99.58
7777	1	0.01	99.59
9999	29	0.41	100.00
Total	7,139	100.00	

Minutes play active			
video games	Freq.	Percent	Cum.
5	2	0.25	0.25
10	10	1.25	1.50
15	10	1.25	2.76
20	20	2.51	5.26
25	1	0.13	5.39
30	137	17.17	22.56
35	1	0.13	22.68
40	5	0.63	23.31
45	16	2.01	25.31
49	1	0.13	25.44
60	329	41.23	66.67
90	13	1.63	68.30
120	170	21.30	89.60
180	54	6.77	96.37
240	19	2.38	98.75
300	1	0.13	98.87
360	3	0.38	99.25
420	2	0.25	99.50
480	1	0.13	99.62
600	1	0.13	99.75
9999	2	0.25	100.00
Total	798	100.00	

```
919 .
920 .
921 . foreach x of varlist PAD615 PAD630 PAD645 PAD660 PAD675 PAD680 PAD733 {
    2. capture drop `x'r
    3. }

922 .
923 .
924 . foreach x of varlist PAD615 PAD630 PAD645 PAD660 PAD675 PAD680 PAD733 {
    2. gen `x'r=`x' if `x'~=9999
    3. }
    (9,009 missing values generated)
    (7,879 missing values generated)
    (8,135 missing values generated)
    (8,123 missing values generated)
    (8,123 missing values generated)
    (7,119 missing values generated)
    (3,065 missing values generated)
    (9,379 missing values generated)
    (9,379 missing values generated)
```

double %10.0g

double %10.0g

Vigorous work activity Number of days vigorous work Moderate work activity

Number of days moderate work

Walk or bicycle Number of days walk or bicycle Vigorous recreational activities Days vigorous recreational activities Moderate recreational activities Days moderate recreational activities Days physically active at least 60 min. Hours watch TV or videos past 30 days Hours use computer past 30 days

Any physical activities past 7 days

942 . 943 .

940 . \*\*PAQ715

941 . \*\*PAQ722

944 . su PAQ605 PAQ610 PAQ620 PAQ625 PAQ635 PAQ640 PAQ650 PAQ655 PAQ665 PAQ670 PAQ706 PAQ710 PAQ715 PAQ722

Variable	0bs	Mean	Std. dev.	Min	Max
PAQ605	7,148	1.836738	.3752659	1	7
PAQ610	1,172	4.076792	3.304771	1	99
PAQ620	7,148	1.679771	.4874233	1	9
PAQ625	2,307	4.358474	4.137308	1	99
PAQ635	7,147	1.714566	.4602464	1	9
PAQ640	2,047	4.798241	1.910468	1	7
PAQ650	7,147	1.712887	.4610255	1	9
PAQ655	2,058	3.663265	3.407621	1	99
PAQ665	7,145	1.573828	.510158	1	9
PAQ670	3,059	3.636156	3.507445	1	99
PA0706	2,989	5.802275	5.276052	0	99
PAQ710	9,448	2.516406	2.592166	0	99
PAQ715	9,448	3.160457	3.160951	0	8
PAQ722	2,707	1.19505	.4216138	1	9

```
945 .
946 . foreach x of varlist PAQ605 PAQ610 PAQ620 PAQ625 PAQ635 PAQ640 PAQ650 PAQ655 PAQ665 PAQ670 PAQ706 PAQ710 PAQ715 PAQ72
     2.
                capture drop `x'r
     3. }
```

```
947 .
948 .
949 .
950 .
```

952 . foreach x of varlist PAQ605 PAQ610 PAQ620 PAQ625 PAQ635 PAQ640 PAQ650 PAQ655 PAQ665 PAQ670 PAQ706 PAQ710 PAQ715 PAQ72 gen x'r=x' if  $x'\sim=9$  |  $x'\sim=99$ 

3. } (3,027 missing values generated) (9,003 missing values generated) (3,027 missing values generated) (7,868 missing values generated) (3,028 missing values generated) (8,128 missing values generated) (3,028 missing values generated) (8,117 missing values generated) (3,030 missing values generated) (7,116 missing values generated) (7,186 missing values generated)

(727 missing values generated)

```
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    (727 missing values generated)
    (7,468 missing values generated)
953 .
954 . save, replace
   file NHANES_NFL_MORTALITY_PAPER.dta saved
956 . *Walking MET-min/week - use median time of each category*
957 . capture drop walkperday
958 . gen walkperday = PAD645r
    (8,135 missing values generated)
959 . label var walkperday "walking minutes per day"
961 . *Frequency of Walking (no days per week) - use median time of each category*
962 . capture drop walkperweek
963 . gen walkperweek = PAQ640r
    (8,128 missing values generated)
964 . label var walkperweek "walking days per week"
966 . *Calculate walking MET-min/week*
967 . capture drop walkMETmin
968 . gen walkMETmin = 3.3 * walkperday * walkperweek
    (8,135 missing values generated)
969 . label var walkMETmin "MET-min per week walking"
970 .
971 . *Moderate exercise MET-min/week*
972 . capture drop modperday
973 . gen modperday = (PAD630r+PAD675r)
    (9,053 missing values generated)
974 . label var modperday "moderate exercise minutes per day"
975 .
976 . *Frequency of moderate exercise (no days per week)*
977 . capture drop modperweek
978 . gen modperweek = (PAQ625r+PAQ670r)
    (9,048 missing values generated)
979 . label var modperweek "moderate exercise days per week"
981 . *Calculate moderate exercise MET-min/week*
```

982 . capture drop modMETmin

```
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983 . gen modMETmin = 4.0 * modperday * modperweek
     (9,053 missing values generated)
984 . label var modMETmin "MET-min per week moderate exercise"
986 . *Vigorous exercise MET-min/week*
987 . capture drop vigperday
988 . gen vigperday = (PAD615r+PAD660r)
     (9,782 missing values generated)
989 . label var vigperday "vigorous exercise minutes per day"
991 . *Frequency of vigorous exercise (no days per week)*
992 . capture drop vigperweek
993 . gen vigperweek = (PAQ610r+PAQ655r)
     (9,781 missing values generated)
994 . label var vigperweek "vigorous exercise days per week"
995 .
996 . *Calculate vigorous exercise MET-min/week*
997 . capture drop vigMETmin
998 . gen vigMETmin = 8.0 * vigperday * vigperweek
     (9,782 missing values generated)
999 . label var vigMETmin "MET-min per week vigorous exercise"
1000 .
1001 .
1002 . ****Calculate TOTAL MET-min per week******
1003 . capture drop METmin
1004 . order modMETmin, before(vigMETmin)
1005 . order walkMETmin, before(modMETmin)
1006 . egen METmin = rowtotal(walkMETmin-vigMETmin)
1007 . label var METmin "MET-min per week total exercise" // missing values exist - consider imputation
1008 .
1009 .
1010 . capture drop PHYSICAL_days_average
1011 . gen PHYSICAL_days_average=METmin
1012 .
1013 . save, replace
     file NHANES_NFL_MORTALITY_PAPER.dta saved
```

1014 . 1015 .

1016 . \*\*\*\*SELF-RATED HEALTH\*\*
1017 . tab HSD010, missing

General health condition	Freq.	Percent	Cum.
1	641	6.30	6.30
2	1,826	17.95	24.25
3	2,605	25.60	49.85
4	1,186	11.66	61.50
5	208	2.04	63.55
9	1	0.01	63.56
•	3,708	36.44	100.00
Total	10,175	100.00	

1018 .

1019 . capture drop SELF\_RATED\_HEALTH

1020 . gen SELF\_RATED\_HEALTH=.

(10,175 missing values generated)

1022 . replace SELF\_RATED\_HEALTH=2 if HSD010>=4 & HSD010<=5
 (1,394 real changes made)</pre>

1023

1024 . tab SELF\_RATED\_HEALTH, missing

SELF_RATED_ HEALTH	Freq.	Percent	Cum.
1	5,072	49.85	49.85
2	1,394	13.70	63.55
•	3,709	36.45	100.00
Total	10,175	100.00	

1025 .

1026 . \*\*CO-MORBIDITY INDEX\*\*

1027 . tab MCQ160B

Ever told had congestive heart failure	Freq.	Percent	Cum.
1 2 9	182 5,579 8	3.15 96.71 0.14	3.15 99.86 100.00
Total	5,769	100.00	

# 1028 . tab MCQ160C

1020	. cab negrooc			
	Ever told you had coronary heart disease	Freq.	Percent	Cum.
	1 2 9	232 5,519 18	4.02 95.67 0.31	4.02 99.69 100.00
	Total	5,769	100.00	
1029	. tab MCQ160D			
	Ever told you had angina/angi na pectoris	Freq.	Percent	Cum.
	1 2 9	136 5,625 8	2.36 97.50 0.14	2.36 99.86 100.00
	Total	5,769	100.00	
1030	. tab MCQ160E			
	Ever told you had heart attack	Freq.	Percent	Cum.
	1 2 9	230 5,536 3	3.99 95.96 0.05	3.99 99.95 100.00
	Total	5,769	100.00	
1031	. tab MCQ160F			
	Ever told you had a stroke	Freq.	Percent	Cum.
	1 2 9	202 5,562 5	3.50 96.41 0.09	3.50 99.91 100.00
	Total	5,769	100.00	
1032	. tab MCQ220			
	Ever told you had cancer or malignancy	Freq.	Percent	Cum.
	1 2	547 5,222	9.48 90.52	9.48 100.00
	Total	5,769	100.00	

1033 .

1034 . describe MCQ160B MCQ160C MCQ160D MCQ160E MCQ160F MCQ220

	Variable name	Storage type	Display format	Value label Var	riable label
	MCQ160B MCQ160C MCQ160D MCQ160E MCQ160F MCQ220	double double double double	%10.0g %10.0g %10.0g %10.0g %10.0g %10.0g	Eve Eve Eve Eve	er told had congestive heart failure er told you had coronary heart disease er told you had angina/angina pectoris er told you had heart attack er told you had a stroke er told you had cancer or malignancy
1037 1038 1039 1040 1041 1042 1043 1044	. **MCQ160B . **MCQ160C . **MCQ160D . **MCQ160E . **MCQ160F . **MCQ220	dou dou dou dou pp CVD_CANC	_		Ever told had congestive heart failure Ever told you had coronary heart disease Ever told you had angina/angina pectoris Ever told you had heart attack Ever told you had a stroke Ever told you had cancer or malignancy
		ing values D_CANCER_HI	generated) STORY=1 if	(MCQ160B==1   N	MCQ160C==1   MCQ160D==1   MCQ160E==1   MCQ160F==1   MCQ220==1)
1047	(1,021 real of the control of the co	D_CANCER_HI	STORY=0 if	CVD_CANCER_HIST	ORY==.
1048 1049	tab CVD_CAN	NCER_HISTOR	RY		
	CVD_CANCER_ HISTORY	Freq	ı. Perce	nt Cum.	
	0 1	9,15 1,02			

CVD_CANCER_ HISTORY	Freq.	Percent	Cum.
0	9,154	89.97	89.97
1	1,021	10.03	100.00
Total	10,175	100.00	

1050 .

1053 .

1054 . 1055 . capture drop BMI

1056 . gen BMI=BMXBMI

(1,120 missing values generated)

1057 .

1058 . su BMI

```
Variable
                  0bs
                              Mean
                                      Std. dev.
                                                       Min
                                                                  Max
     BMI
                9,055
                          25.67824
                                      7.955137
                                                      12.1
                                                                 82.9
```

1059 . histogram BMI

(bin=39, start=12.1, width=1.8153846)

1060 .

1061 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

1062 .

1063 .

1065 . 1066 . capture drop SBP

1067 . gen SBP=(BPXSY1+BPXSY2+BPXSY3)/3 (3,201 missing values generated)

1068 .

1069 . capture drop DBP

1070 . gen DBP=(BPXDI1+BPXDI2+BPXDI3)/3 (3,201 missing values generated)

1071 .

1072 . su SBP DBP

Variable	0bs	Mean	Std. dev.	Min	Max
SBP	6,974	117.8005	17.52939	64.66666	228.6667
DBP	6,974	65.17532	14.78382	0	116.6667

1073 .
1074 . histogram SBP

(bin=38, start=64.666664, width=4.3157897)

1075 . histogram DBP

(bin=38, start=0, width=3.0701754)

1076 .

1077 . save, replace

file NHANES\_NFL\_MORTALITY\_PAPER.dta saved

1078 .

1080 .

1081 . capture drop TOTALCHOLESTEROLSI

1082 . gen TOTALCHOLESTEROLSI=LBDTCSI (2,551 missing values generated)

Wednesday April 24 11:52:26 2024 Page 65 1083 . 1084 . 1085 . su TOTALCHOLESTEROLSI Variable Ohs Std. dev. Min Mean Max TOTALCHOLE~I 7,624 1.78 21.02 4.64272 1.059131 1086 . histogram TOTALCHOLESTEROLSI (bin=38, start=1.78, width=.5063158) 1087 . 1088 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved 1089 . 1090 . 1093 . capture drop HBA1C 1094 . gen HBA1C=LBXGH (3,532 missing values generated) 1095 . 1096 . histogram HBA1C (bin=38, start=3.5, width=.36842105) 1097 . 1098 . save, replace file NHANES\_NFL\_MORTALITY\_PAPER.dta saved 1101 . 1102 . 1103 . capture drop ACR 1104 . gen ACR=URDACT if URDACT<1000 (2,178 missing values generated) 1105 .

1106 . capture drop LnACR

1107 . gen LnACR=ln(ACR)
 (2,178 missing values generated)

1108 . 1109 . su LnACR

Variable Obs Mean Std. dev. Min Max

LnACR 7,997 2.287459 1.019772 -1.560648 6.886481

1110 . histogram LnACR (bin=39, start=-1.5606477, width=.21659304)

```
1111 .
1112 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
1113 .
1116 .
1117 . **PLASMA 25(OH)D3, NMOL/L**
1119 . capture drop VitaminD_serum
1120 . gen VitaminD_serum=LBXVD3MS
    (1,732 missing values generated)
1121 .
1122 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
1123 .
1124 . **RBC FOLATE, NMOL/L**
1126 . capture drop folate_RBCSI
1127 . gen folate_RBCSI=LBDRFOSI
    (1,715 missing values generated)
1129 . su folate_RBCSI
        Variable
                        0bs
                                         Std. dev.
                                  Mean
                                                        Min
                                                                  Max
    folate_RBCSI
                      8,460
                              1181.695
                                         499.4187
                                                                 6750
                                                        114
1130 . histogram folate_RBCSI
    (bin=39, start=114, width=170.15385)
1131 .
1132 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
1133 .
1134 .
1135 . **PLASMA B-12, PMOL/L**
1136 . capture drop vitaminb12_serumsi
1137 . gen vitaminb12 serumsi=LBDB12
    (4,728 missing values generated)
1138 .
1139 . save, replace
    file NHANES_NFL_MORTALITY_PAPER.dta saved
1141 . capture log close
```