

1 . capture drop sample20plus

name: <unnamed>

log: E:\16GBBACKUPUSB\BACKUP\_USB\_SEPTEMBER2014\May Baydoun\_folder\NHANES\_NFL\_MORTALITY\_PAPER\OUTPUT\FIGURE1.smc

log type: smcl

opened on: 2 Nov 2022, 07:30:25

8 . \*\*//////GENERATE FINAL SAMPLE SELECTION VARIABLE/////////////

9 . use  $NHANES_NFL_MORTALITY_PAPER, clear$ 

10

11 . \*\*\*\*\*\*\*\*\*\*SAMPLE 20+\*\*\*\*\*\*\*\*\*\*\*

12 .

13 . capture drop sample20plus

14 . gen sample20plus=.
 (10,175 missing values generated)

15 . replace sample20plus=1 if AGE>=20 & AGE~=.
 (5,769 real changes made)

16 . replace sample20plus=0 if sample20plus~=1 & AGE~=.
 (4,406 real changes made)

17 .

18 .

19 . \*\*\*\*\*\*\*\*\*FINAL SAMPLE\*\*\*\*\*\*\*\*\*\*\*

20 . capture drop SAMPLE\_FINAL

21 . gen SAMPLE\_FINAL=.
 (10,175 missing values generated)

22 . replace SAMPLE\_FINAL=1 if LNNFL~=.
 (2,071 real changes made)

23 . replace SAMPLE\_FINAL=0 if SAMPLE\_FINAL~=1
 (8,104 real changes made)

24 .

25 .

26 . tab SAMPLE\_FINAL

Cum.	Percent	Freq.	SAMPLE_FINA L
79.65 100.00	79.65 20.35	8,104 2,071	0 1
	100.00	10,175	Total

```
Wednesday April 24 11:51:31 2024 Page 2
```

```
27 .
28 . save, replace
  file NHANES_NFL_MORTALITY_PAPER.dta saved
29 .
31 . ********FINAL SAMPLE2, WITH COMPLETE COVARIATES****
32 .
34 . **GET FROM MED4WAY ANALYSIS**
35 .
36 . save, replace
  file NHANES_NFL_MORTALITY_PAPER.dta saved
37 .
38 .
39 .
42 .
43 . xi:probit SAMPLE_FINAL AGE SEX i.RACE_ETHN if RIDAGEYR>=20
                _IRACE_ETHN_0-3 (naturally coded; _IRACE_ETHN_0 omitted)
  i.RACE_ETHN
              log\ likelihood = -3766.1966
  Iteration 0:
  Iteration 1:
                log likelihood = -3732.2593
                log likelihood = -3732.2474
  Iteration 2:
  Iteration 3: log likelihood = -3732.2474
  Probit regression
                                                    Number of obs = 5,769
                                                    LR chi2(5) = 67.90
Prob > chi2 = 0.0000
  Log likelihood = -3732.2474
                                                     Pseudo R2 = 0.0090
```

SAMPLE_FINAL	Coefficient	Std. err.	z	P> z	[95% conf.	interval]
AGE	0072819	.0009889	-7.36	0.000	0092201	0053436
SEX	.0005022	.033964	0.01	0.988	066066	.0670704
_IRACE_ETHN_1	1561952	.0461589	-3.38	0.001	246665	0657254
_IRACE_ETHN_2	.0113419	.044252	0.26	0.798	0753905	.0980743
_IRACE_ETHN_3	0712786	.0514953	-1.38	0.166	1722076	.0296504
_cons	.0314909	.0760259	0.41	0.679	1175171	.180499

44 . capture drop p1

45 . predict p1, xb

46 .

47 . capture drop phi

48 . capture drop caphi

49 . capture drop invmills

```
50 .
51 . gen phi=(1/sqrt(2*_pi))*exp(-(p1^2/2))
53 . egen caphi=std(p1)
55 . capture drop invmills
56 . gen invmills=phi/caphi
57 .
58 . save, replace
  file NHANES_NFL_MORTALITY_PAPER.dta saved
59 .
61 . /*SURVEY COMMANDS*/
62 .
63 . sum WTSSNH2Y
      Variable
                         0bs
                                    Mean
                                            Std. dev.
                                                            Min
                                                                       Max
      WTSSNH2Y
                       2,085
                                101916.6
                                            72591.71
                                                                    384148
65 . svyset [pweight=WTSSNH2Y], strata(SDMVSTRA) psu(SDMVPSU)
   Sampling weights: WTSSNH2Y
                VCE: linearized
        Single unit: missing
          Strata 1: SDMVSTRA
    Sampling unit 1: SDMVPSU
             FPC 1: <zero>
66 .
67 .
68 . save, replace
  file NHANES_NFL_MORTALITY_PAPER.dta saved
70 . *************AGE AT ALL-CAUSE DEATH****
71 .
72 . capture drop AGE_DEATH
73 . gen AGE_DEATH=AGE+PERMTH_EXM/12
   (4,262 missing values generated)
74 .
75 . save, replace
  file NHANES_NFL_MORTALITY_PAPER.dta saved
76 .
78 . capture log close
```

Wednesday April 24 11:51:31 2024 Page 3