



```

name: <unnamed>
log: E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2.smc
log type: smc1
opened on: 2 Nov 2022, 10:29:27

```

```

1 .
2 .
3 . *****FIGURE 2: KAPLAN-MEIER CURVES, ABOVE AND BELOW MEDIAN NFL*****
4 .
5 .
6 . use finaldata_imputed,clear
7 .
8 . mi extract 0
9 .
10 . save finaldata_unimputed, replace
    file finaldata_unimputed.dta saved
11 .
12 .
13 .
14 . svyset SDMVPSU [pweight=WTSSNH2Y], strata(SDMVSTRA) vce(linearized) singleunit(missing)

    Sampling weights: WTSSNH2Y
                   VCE: linearized
    Single unit: missing
    Strata 1: SDMVSTRA
    Sampling unit 1: SDMVPSU
                   FPC 1: <zero>

15 .
16 . stset AGE_DEATH [pweight = WTSSNH2Y] , failure(MORTSTAT==1) enter(AGE) id(SEQN) scale(1)

```

Survival-time data settings

```

    ID variable: SEQN
    Failure event: MORTSTAT==1
    Observed time interval: (AGE_DEATH[_n-1], AGE_DEATH]
    Enter on or after: time AGE
    Exit on or before: failure
    Weight: [pweight=WTSSNH2Y]

```

10,175	total observations	
4,262	event time missing (AGE_DEATH>=.)	PROBABLE ERROR
1	observation ends on or before enter()	
3,842	weights invalid	PROBABLE ERROR
<hr/>		
2,070	observations remaining, representing	
2,070	subjects	
84	failures in single-failure-per-subject data	
12,191.917	total analysis time at risk and under observation	
	At risk from t =	0
	Earliest observed entry t =	20
	Last observed exit t =	81.83334

```
17 .
18 .
19 . **OVERALL**
20 . sts test LNNFLMEDIAN if SAMPLE_FINAL==1
    note: sampling weights detected; using Cox regression-based test.
```

```
        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]
```

Equality of survivor functions  
Cox regression-based test

LNNFLMEDIAN	Observed events	Expected events	Relative hazard
1	1303167.79	2424014.19	0.5100
2	6094120.30	4973273.89	1.3885
Total	7397288.10	7397288.10	1.0000

```
Wald chi2(1) = 6.62
Pr>chi2      = 0.0101
```

Note: Reporting Wald model test from Cox regression  
on LNNFLMEDIAN.

```
21 .
22 .
23 .
24 . sts graph if SAMPLE_FINAL==1, by(LNNFLMEDIAN) scheme(sj)
```

```
        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]
```

```
25 . graph save "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2A.g
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2A.gph saved
```

```
26 .
27 . **MEN*****
28 .
29 . sts test LNNFLMEDIAN if SAMPLE_FINAL==1 & SEX==1
    note: sampling weights detected; using Cox regression-based test.
```

```
        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]
```

Equality of survivor functions  
Cox regression-based test

LNNFLMEDIAN	Observed events	Expected events	Relative hazard
1	683757.13	1218933.08	0.5405
2	2942581.06	2407405.12	1.3656
Total	3626338.20	3626338.20	1.0000

Wald chi2(1) = 2.80  
Pr>chi2 = 0.0945

Note: Reporting Wald model test from Cox regression on LNNFLMEDIAN.

```

30 .
31 .
32 .
33 . sts graph if SAMPLE_FINAL==1 & SEX==1, by(LNNFLMEDIAN) scheme(sj)

        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]

34 . graph save "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2B.g
file E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2B.gph saved

35 .
36 .
37 . **WOMEN*****
38 .
39 .
40 . sts test LNNFLMEDIAN if SAMPLE_FINAL==1 & SEX==2
    note: sampling weights detected; using Cox regression-based test.

        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]

Equality of survivor functions
Cox regression-based test



| LNNFLMEDIAN | Observed<br>events | Expected<br>events | Relative<br>hazard |
|-------------|--------------------|--------------------|--------------------|
| 1           | 619410.66          | 1143650.44         | 0.5096             |
| 2           | 3151539.24         | 2627299.44         | 1.3411             |
| Total       | 3770949.90         | 3770949.90         | 1.0000             |



        Wald chi2(1) = 3.46
        Pr>chi2 = 0.0629

Note: Reporting Wald model test from Cox regression on LNNFLMEDIAN.

41 .
42 .
43 .
44 . sts graph if SAMPLE_FINAL==1 & SEX==2, by(LNNFLMEDIAN) scheme(sj)

        Failure _d: MORTSTAT==1
        Analysis time _t: AGE_DEATH
        Enter on or after: time AGE
        ID variable: SEQN
        Weight: [pweight=WTSSNH2Y]

```

```
45 . graph save "E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2C.g
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2C.gph saved
46 .
47 .
48 . ***BAR GRAPH***
49 .
50 . graph box LNNFL [pweight = WTSSNH2Y], over(LNNFLMEDIAN) over(SEX) scheme(sj)

51 . graph save "E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2D.g
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2D.gph saved
52 .
53 . ****GRAPH COMBINE***
54 .
55 . graph combine "E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2
    > \BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2C.gph" ///
    > "E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2D.gph"

56 .
57 .
58 . graph save "E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2.g
    file E:\16GBBACKUPUSB\BACKUP_USB_SEPTMBER2014\May Baydoun_folder\NHANES_NFL_MORTALITY_PAPER\OUTPUT\FIGURE2.gph saved
59 .
60 . save, replace
    file finaldata_unimputed.dta saved
61 .
62 . capture log close
```