name: **<unnamed>**
log: **E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER64_HCYDEPANXIETY_LONG\OUTPU**
log type: **smcl**
opened on: **21 Jun 2024, 09:15:16**

```
. 
. 
. //STEP 20: CENTER CONTINUOUS VARIABLES AND LOG TRANSFORM TRAILS//
. 
. use finaldata_imputed_FINAL,clear

. 
. 
. **Continuous exposures and covariates**
. 
. capture drop Lnw1HCys Lnw3HCys  Lnw4HCys

. foreach x of varlist w1HCys w3HCys  w4HCys {
  2. gen Ln`x'=ln(`x')
  3. }
(38,970 missing values generated)
(38,202 missing values generated)
(41,940 missing values generated)

. 
. su Lnw1HCys if HNDwave==1 & _mi_m==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
Lnw1HCys	**1,460**	**2.149369**	**.3278358**	**1.05779**	**4.723753**

```
. su w1hei2010_total_score if HNDwave==1 & _mi_m==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1hei2010_~e	**2,177**	**42.59318**	**11.48268**	**12.62117**	**89.42492**

```
. su w1BMI if HNDwave==1 & _mi_m==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1BMI	**2,853**	**30.0263**	**7.921048**	**14.35524**	**70.069**

```
. su invmills* if HNDwave==1 & _mi_m==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
invmillsCES	**3,720**	**1.136338**	**57.66664**	**-256.8285**	**3476.2**

```
. su w1Age if HNDwave==1 & _mi_m==0
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**3,720**	**48.26927**	**9.357168**	**29.8**	**66.2**

```
18 .
19 . ******HCys******
20 .
21 . capture drop Lnw1HCyscenter2p15

22 . mi passive: gen Lnw1HCyscenter2p15=Lnw1HCys-2.15
   m=0:
   (6,495 missing values generated)
   m=1:
   (6,495 missing values generated)
   m=2:
   (6,495 missing values generated)
   m=3:
   (6,495 missing values generated)
   m=4:
   (6,495 missing values generated)
   m=5:
   (6,495 missing values generated)

23 .
24 . capture drop zw1w3w4HCysTRAJ

25 . egen zw1w3w4HCysTRAJ=std(w1w3w4HCysTRAJ)
   (36,330 missing values generated)

26 .
27 .
28 . ******Dietary exposures and covariates******
29 .
30 . capture drop w1hei2010_total_scorecent43

31 . gen w1hei2010_total_scorecent43=w1hei2010_total_score-43
   (4,504 missing values generated)

32 .
33 .
34 . ******Other covariates*******
35 .
36 . capture drop w1BMIcent30

37 . gen w1BMIcent30=w1BMI-30
   (2,176 missing values generated)

38 .
39 . su w1BMIcent30 if HNDwave==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
 w1BMIcent30 |     21,453   -.0035694    7.898146  -27.27024     40.069

40 .
```

```
41 . capture drop w1Agecent48

42 . gen w1Agecent48=w1Age-48

43 .
44 . su w1Agecent48 if HNDwave==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Agecent48	**22,320**	**.2692742**	**9.35612**	**-18.2**	**18.2**

```
45 .
46 .
47 . **Categorical covariates:
48 . tab1 w1edubr  w1currdrugs w1smoke  w1SRH w1dxHTN w1dxDiabetes w1CVhighChol w1cvdbr
```

-> tabulation of w1edubr

w1edubr	Freq.	Percent	Cum.
1	**5,011**	**6.93**	**6.93**
2	**44,046**	**60.96**	**67.89**
3	**23,202**	**32.11**	**100.00**
Total	**72,259**	**100.00**	

-> tabulation of w1currdrugs

w1currdrugs	Freq.	Percent	Cum.
0	**56,269**	**81.47**	**81.47**
1	**12,799**	**18.53**	**100.00**
Total	**69,068**	**100.00**	

-> tabulation of w1smoke

w1smoke	Freq.	Percent	Cum.
0	**35,555**	**51.25**	**51.25**
1	**33,815**	**48.75**	**100.00**
Total	**69,370**	**100.00**	

-> tabulation of w1SRH

w1SRH	Freq.	Percent	Cum.
1	**19,095**	**26.35**	**26.35**
2	**29,446**	**40.63**	**66.98**
3	**23,925**	**33.02**	**100.00**
Total	**72,466**	**100.00**	

-> tabulation of w1dxHTN

w1dxHTN	Freq.	Percent	Cum.
No	**38,297**	**54.74**	**54.74**
Yes	**31,660**	**45.26**	**100.00**
Total	**69,957**	**100.00**	

-> tabulation of w1dxDiabetes

w1dxDiabetes	Freq.	Percent	Cum.
NoDx	**45,956**	**65.69**	**65.69**
preDiabetes	**12,423**	**17.76**	**83.44**
Diabetes	**11,585**	**16.56**	**100.00**
Total	**69,964**	**100.00**	

-> tabulation of w1CVhighChol

w1CVhighChol	Freq.	Percent	Cum.
No	**51,239**	**74.18**	**74.18**
Yes	**17,831**	**25.82**	**100.00**
Total	**69,070**	**100.00**	

-> tabulation of w1cvdbr

w1cvdbr	Freq.	Percent	Cum.
0	**57,094**	**82.63**	**82.63**
1	**11,998**	**17.37**	**100.00**
Total	**69,092**	**100.00**	

```
49 .
50 .
51 . **Time varialbes: timew1w3w4
52 .
53 . **Outcome variables**
54 . su CES*
```

Variable	Obs	Mean	Std. dev.	Min	Max
CES	**41,982**	**14.98056**	**11.38019**	**0**	**59**
CES_DA	**42,594**	**4.50331**	**4.922254**	**0**	**21**
CES_IP	**42,594**	**.987463**	**1.377592**	**0**	**6**
CES_SC	**42,594**	**6.647133**	**4.453962**	**0**	**21**
CES_WB	**42,594**	**9.188618**	**2.986327**	**0**	**12**

```
55 .
56 . save finaldata_imputed_FINAL, replace
file finaldata_imputed_FINAL.dta saved

57 .
58 .
```

```
59 .
60 .
61 . **Final sample selectivity**
62 . capture drop sample_final_part

63 . gen sample_final_part=sample4part

64 .
65 .
66 . mi estimate: logistic sample_final_part w1Age Sex PovStat Race if HNDwave==1

Multiple-imputation estimates                   Imputations       =          5
Logistic regression                             Number of obs     =      3,720
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   4,       .)  =       8.61
Within VCE type:          OIM                   Prob > F          =     0.0000

------------------------------------------------------------------------------
sample_final_part | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------+-----------------------------------------------------------
            w1Age |  -.0073826   .0036058    -2.05   0.041      -.01445   -.0003153
              Sex |  -.2093635   .0680241    -3.08   0.002    -.3426883   -.0760386
          PovStat |  -.2978166   .0698817    -4.26   0.000    -.4347823   -.1608509
             Race |  -.1090911   .0691598    -1.58   0.115    -.2446419    .0264596
            _cons |   .8135303   .2497609     3.26   0.001     .3240078    1.303053
------------------------------------------------------------------------------

67 .
68 . mi estimate: logistic sample_final_part w1Age  if HNDwave==1

Multiple-imputation estimates                   Imputations       =          5
Logistic regression                             Number of obs     =      3,720
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   1,       .)  =       3.30
Within VCE type:          OIM                   Prob > F          =     0.0693

------------------------------------------------------------------------------
sample_final_part | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------+-----------------------------------------------------------
            w1Age |  -.0065195   .0035896    -1.82   0.069    -.0135549    .0005159
            _cons |  -.1226329   .1760623    -0.70   0.486    -.4677086    .2224427
------------------------------------------------------------------------------
```

```
69 . mi estimate: logistic sample_final_part Sex  if HNDwave==1

Multiple-imputation estimates                   Imputations       =          5
Logistic regression                             Number of obs     =      3,720
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   1,      .)   =       8.14
Within VCE type:          OIM                   Prob > F          =     0.0043

------------------------------------------------------------------------------
sample_final_part | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------+-----------------------------------------------------------
              Sex |  -.1930907    .067677    -2.85   0.004    -.3257352   -.0604462
            _cons |  -.1573819   .1032469    -1.52   0.127    -.3597421    .0449783
------------------------------------------------------------------------------

70 . mi estimate: logistic sample_final_part PovStat  if HNDwave==1

Multiple-imputation estimates                   Imputations       =          5
Logistic regression                             Number of obs     =      3,720
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   1,      .)   =      18.68
Within VCE type:          OIM                   Prob > F          =     0.0000

------------------------------------------------------------------------------
sample_final_part | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------+-----------------------------------------------------------
          PovStat |  -.2974551   .0688202    -4.32   0.000    -.4323403     -.16257
            _cons |  -.0191214   .1018183    -0.19   0.851    -.2186816    .1804388
------------------------------------------------------------------------------

71 . mi estimate: logistic sample_final_part Race  if HNDwave==1

Multiple-imputation estimates                   Imputations       =          5
Logistic regression                             Number of obs     =      3,720
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   1,      .)   =       4.97
Within VCE type:          OIM                   Prob > F          =     0.0258

------------------------------------------------------------------------------
sample_final_part | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
------------------+-----------------------------------------------------------
             Race |  -.1519331   .0681483    -2.23   0.026    -.2855013   -.0183649
            _cons |  -.1958131   .1130014    -1.73   0.083    -.4172919    .0256656
------------------------------------------------------------------------------
```

```
72 .
73 . save finaldata_imputed_FINAL, replace
   file finaldata_imputed_FINAL.dta saved

74 .
75 . //STEP 21: CREATE HCys LOAD TERTILE//
76 .
77 . use finaldata_imputed_FINAL,clear

78 .
79 . capture drop w1HCystert

80 . xtile w1HCystert=w1HCys if HNDwave==1 | HNDwave==3,nq(3)

81 .
82 .
83 . tab w1HCystert
```

3 quantiles of w1HCys	Freq.	Percent	Cum.
1	**5,778**	**33.34**	**33.34**
2	**5,796**	**33.45**	**66.79**
3	**5,754**	**33.21**	**100.00**
Total	**17,328**	**100.00**	

```
84 .
85 . bysort w1HCystert: su  w1HCys if HNDwave==1
```

-> w1HCystert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
w1HCys	**2,910**	**6.287897**	**.7979928**	**2.88**	**7.37**

-> w1HCystert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
w1HCys	**2,934**	**8.423252**	**.6121844**	**7.38**	**9.52**

-> w1HCystert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
w1HCys	**2,916**	**12.81728**	**7.65813**	**9.53**	**112.59**

-> w1HCystert = .

Variable	Obs
w1HCys	**0**

```
86 .
87 . save finaldata_imputed_FINAL, replace
   file finaldata_imputed_FINAL.dta saved

88 .
89 .
90 . capture log close
```