```
 1 .
 2 .
 3 .
 4 . **********************TABLE S2: BY LnNFL visits 1 and 2 TERTILES*********************************
 5 .
 6 .
 7 .
 8 .
 9 . ////////////////////////////////BY LnNFL at visit 1, tertiles//////////////////////
   >
10 .
11 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

12 . sort HNDID

13 . capture drop _merge

14 . save, replace
   file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

15 .
16 . tab sample_final

   sample_fina |
             l |      Freq.     Percent        Cum.
   ------------+-----------------------------------
             0 |      3,541       95.19       95.19
             1 |        179        4.81      100.00
   ------------+-----------------------------------
         Total |      3,720      100.00

17 .
18 .
19 .
20 . capture drop LnNFLw1tert

21 .
22 . xtile LnNFLw1tert=LnNFLw1 if sample_final==1, nq(3)

23 . bysort LnNFLw1tert: su LnNFLw1
```

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	60	1.486955	.277506	.6022635	1.809636

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	60	1.990746	.1051172	1.814715	2.185936

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	59	2.565756	.4095113	2.188571	4.286799

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	515	1.969974	.5000774	.2497199	4.355302

24 . bysort LnNFLw1tert: su LnNFLw3

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	60	1.806707	.4344249	1.053142	3.405375

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	60	2.25229	.5388085	1.459152	5.371432

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	59	2.597268	.4659789	1.437115	4.2382

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	530	2.158426	.5639202	-.1807307	4.779036

25 . bysort LnNFLw1tert: su bayes1LnNFL

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	60	.0523289	.0562192	-.0595876	.2847928

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	60	.0476904	.0816892	-.0860051	.5216877

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	59	.0133515	.0776664	-.3087366	.3295927

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	515	.0360965	.06044	-.1922796	.4570591

```
26 . bysort LnNFLw1tert: su deltaLnNFL
```

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	60	.0740563	.0907944	-.1223966	.3901258

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	60	.0598992	.1095124	-.1213219	.6446922

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	59	-.0015555	.1244079	-.4373254	.4469894

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	495	.0443271	.0922897	-.2859356	.618512

```
27 .
28 .
29 . save, replace
file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

30 .
31 .
32 . **************LnNFL, v1, T1*****************************
33 .
34 . tab Sex if sample_final==1 & LnNFLw1tert==1
```

Sex	Freq.	Percent	Cum.
Women	36	60.00	60.00
Men	24	40.00	100.00
Total	60	100.00	

```
35 . su w1Age if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**60**	**41.93667**	**7.907151**	**30.2**	**59.2**

```
36 . tab w1Agebr if sample_final==1 & LnNFLw1tert==1
```

w1Agebr	Freq.	Percent	Cum.
0	**50**	**83.33**	**83.33**
1	**10**	**16.67**	**100.00**
Total	**60**	**100.00**	

```
37 . tab Race if sample_final==1 & LnNFLw1tert==1
```

Race	Freq.	Percent	Cum.
White	**30**	**50.00**	**50.00**
AfrAm	**30**	**50.00**	**100.00**
Total	**60**	**100.00**	

```
38 . tab PovStat if sample_final==1 & LnNFLw1tert==1
```

Poverty status	Freq.	Percent	Cum.
Above	**34**	**56.67**	**56.67**
Below	**26**	**43.33**	**100.00**
Total	**60**	**100.00**	

```
39 .
40 . su TIME_V1SCAN if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	**60**	**2103.45**	**618.4066**	**896**	**3639**

```
41 . su TIME_V2SCAN if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	**60**	**487.1833**	**471.0051**	**41**	**1895**

```
42 .
43 .
44 .
45 . ****IMPUTED DATA COVARIATES*****
46 . use finaldata_imputed, clear
```

```
47 .
48 .
49 . capture drop LnNFLw1tert

50 .
51 . xtile LnNFLw1tert=LnNFLw1 if sample_final==1, nq(3)

52 . bysort LnNFLw1tert: su LnNFLw1
```

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**1.486955**	**.2755668**	**.6022635**	**1.809636**

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**1.990746**	**.1043826**	**1.814715**	**2.185936**

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**354**	**2.565756**	**.4066007**	**2.188571**	**4.286799**

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**3,090**	**1.969974**	**.4996725**	**.2497199**	**4.355302**

```
53 .
54 . save, replace
file finaldata_imputed.dta saved

55 .
56 .
57 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
58 .
59 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1BMI	**30.9093**	**.8879748**	**29.13123**	**32.68738**

```
60 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0144
                                  Largest FMI     =     0.0298
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      54.94
                                          avg     =      55.87
Within VCE type:     Analytic             max     =      57.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1dxDiabetes				
no	.7466667	.056732	.6329999	.8603334
pre-diabetes	.17	.049169	.0714608	.2685392
diabetes	.0833333	.0356812	.0118856	.1547811

```
61 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Glucose	97.46667	3.058051	91.34325	103.5901

```
62 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.3475
                                  Largest FMI     =     0.2882
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      24.86
                                          avg     =      24.86
Within VCE type:     Analytic             max     =      24.86
```

	Mean	Std. err.	[95% conf.	interval]
w1Creatinine	.8672551	.0355936	.7939276	.9405826

```
63 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
  w1USpecGrav |     1.0192   .0009534      1.017291    1.021109
------------------------------------------------------------------------------

64 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1BUN |    12.66667   .5339685      11.59745    13.73588
------------------------------------------------------------------------------

65 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1ALP |    70.91667   2.449062      66.01268    75.82065
------------------------------------------------------------------------------

66 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1UricAcid	**5.363333**	**.169928**	**5.023071**	**5.703596**

```
67 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Albumin	**4.345**	**.0373126**	**4.270286**	**4.419714**

```
68 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.723333**	**.2231942**	**2.276411**	**3.170256**

```
69 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0573
                                  Largest FMI     =     0.0583
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      51.94
                                          avg     =      51.94
Within VCE type:     Analytic             max     =      51.94
```

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**18.45116**	**1.195508**	**16.05214**	**20.85019**

```
70 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0419
                                  Largest FMI     =     0.0433
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      53.61
                                          avg     =      53.61
Within VCE type:     Analytic             max     =      53.61
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1currdrugs				
0	.8266667	.0498702	.7266664	.9266669
1	.1733333	.0498702	.0733331	.2733336

```
71 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw1tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1SRH				
1	.1833333	.0499537	.0833065	.2833602
2	.3833333	.0627679	.2576473	.5090194
3	.4333333	.0639734	.3052336	.5614331

```
72 .
73 .
74 .
75 .
76 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

77 .
78 .
79 .
80 .
81 . su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw1tert==1, det

                          LnNFLw1
-------------------------------------------------------------
      Percentiles      Smallest
 1%     .6022635       .6022635
 5%     .8738109       .7098107
10%     1.095444       .7859286       Obs                  60
25%     1.369547       .9616931       Sum of wgt.          60
```

50%	**1.573721**		Mean	**1.486955**
		Largest	Std. dev.	**.277506**
75%	**1.669723**	**1.803478**		
90%	**1.753991**	**1.805577**	Variance	**.0770096**
95%	**1.804528**	**1.807668**	Skewness	**-1.34876**
99%	**1.809636**	**1.809636**	Kurtosis	**4.410169**

LnNFLw3

	Percentiles	Smallest		
1%	**1.053142**	**1.053142**		
5%	**1.135396**	**1.094554**		
10%	**1.315597**	**1.134186**	Obs	**60**
25%	**1.570411**	**1.136606**	Sum of wgt.	**60**
50%	**1.781165**		Mean	**1.806707**
		Largest	Std. dev.	**.4344249**
75%	**2.024559**	**2.372947**		
90%	**2.247588**	**2.502223**	Variance	**.188725**
95%	**2.437585**	**3.186792**	Skewness	**1.147164**
99%	**3.405375**	**3.405375**	Kurtosis	**5.869562**

```
82 . su LnNFLw3 if sample_final==1 & LnNFLw1tert==1, det
```

LnNFLw3

	Percentiles	Smallest		
1%	**1.053142**	**1.053142**		
5%	**1.135396**	**1.094554**		
10%	**1.315597**	**1.134186**	Obs	**60**
25%	**1.570411**	**1.136606**	Sum of wgt.	**60**
50%	**1.781165**		Mean	**1.806707**
		Largest	Std. dev.	**.4344249**
75%	**2.024559**	**2.372947**		
90%	**2.247588**	**2.502223**	Variance	**.188725**
95%	**2.437585**	**3.186792**	Skewness	**1.147164**
99%	**3.405375**	**3.405375**	Kurtosis	**5.869562**

```
83 . su bayes1LnNFL if sample_final==1 & LnNFLw1tert==1, det
```

(mean) bayes1LnNFL

	Percentiles	Smallest		
1%	**-.0595876**	**-.0595876**		
5%	**-.027205**	**-.0420561**		
10%	**-.0082743**	**-.0289531**	Obs	**60**
25%	**.0243396**	**-.0254569**	Sum of wgt.	**60**
50%	**.0466117**		Mean	**.0523289**
		Largest	Std. dev.	**.0562192**
75%	**.0748095**	**.1217039**		
90%	**.1091859**	**.1364969**	Variance	**.0031606**
95%	**.1291004**	**.2464103**	Skewness	**1.653097**
99%	**.2847928**	**.2847928**	Kurtosis	**8.359438**

```
84 . su deltaLnNFL if sample_final==1 & LnNFLw1tert==1, det

                          deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.1223966      -.1223966
 5%    -.0697527       -.116494
10%    -.0093489      -.1007004       Obs                  60
25%     .0303518       -.038805       Sum of wgt.          60

50%     .0647265                      Mean           .0740563
                       Largest       Std. dev.      .0907944
75%     .1069777       .2554303
90%     .1727887       .2867394       Variance       .0082436
95%     .2710848       .3208535       Skewness       .9700713
99%     .3901258       .3901258       Kurtosis       5.541338

85 .
86 . su ICV_volM2 if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         60     1327429    130020.3    1100430    1698206

87 .
88 . su TOTALBRAIN if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
  TOTALBRAIN |         60     1147025    107812.7    944696.4    1467994

89 . su GM if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         60    650352.2    61813.06     527832   813079.3

90 . su WM if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          WM |         60    456429.4    47309.39    368618.4   624398.4

91 .
92 .
93 . su FRONTAL_GM_L_volM2  if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
FRONTAL_GM.. |         60     95040.9    9465.644    76700.4   118312.8

94 . su FRONTAL_WM_L_volM2  if sample_final==1 & LnNFLw1tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
F~WM_L_volM2 |         60    85442.96    9303.276    68972.4   122709.6
```

```
 95 . su TEMPORAL_GM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**50489.74**	**5750.858**	**39304.8**	**64016.4**

```
 96 . su TEMPORAL_WM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	**60**	**49119.1**	**5434.478**	**41617.2**	**67869.6**

```
 97 . su PARIETAL_GM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**46755.72**	**5185.756**	**34833.6**	**60667.2**

```
 98 . su PARIETAL_WM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	**60**	**43538.62**	**4818.417**	**36128.4**	**56784**

```
 99 . su OCCIPITAL_GM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**38345.12**	**4628.73**	**27384**	**50164.8**

```
100 . su OCCIPITAL_WM_L_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	**60**	**20892.58**	**2807.769**	**14616**	**29320.8**

```
101 .
102 .
103 . su FRONTAL_GM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**60**	**95162.5**	**9996.441**	**77472**	**119751.6**

```
104 . su FRONTAL_WM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_R_volM2	**60**	**87669.3**	**9818.664**	**72399.6**	**125416.8**

```
105 . su TEMPORAL_GM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**51614.8**	**5867.353**	**41319.6**	**66536.4**

```
106 . su TEMPORAL_WM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_R_volM2	**60**	**49825.22**	**5473.091**	**41488.8**	**68978.4**

```
107 . su PARIETAL_GM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**47582.24**	**5240.719**	**37462.8**	**61358.4**

```
108 . su PARIETAL_WM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_R_volM2	**60**	**41351.16**	**4709.108**	**34501.2**	**55974**

```
109 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**39038.38**	**4898.165**	**27388.8**	**52418.4**

```
110 . su OCCIPITAL_WM_R_volM2  if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_R_volM2	**60**	**20441.64**	**2768.156**	**14373.6**	**27912**

```
111 .
112 .
113 . su Left_Hippocampus if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	**60**	**3558.5**	**391.27**	**2948.4**	**5062.8**

```
114 . su Right_Hippocampus if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	**60**	**3849.56**	**423.582**	**3220.8**	**5422.8**

```
115 .
116 . su LnLesion_Volume if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	**60**	**4.325268**	**6.254022**	**-18.42068**	**9.335351**

```
117 .
118 . su Left_Hippocampuspct if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	**60**	**.26873**	**.0224654**	**.2132792**	**.3339828**

```
119 . su Right_Hippocampuspct if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	**60**	**.2907112**	**.0242672**	**.2331134**	**.3464778**

```
120 .
121 . su LnLesion_Volumepct if sample_final==1 & LnNFLw1tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	**60**	**-5.163773**	**6.243314**	**-28.00085**	**-.1922425**

```
122 .
123 . ************************LnNFL, V1, second tertile****************
124 .
125 . **************LnNFL, v1, T2*****************************
126 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

127 .
128 . tab Sex if sample_final==1 & LnNFLw1tert==2
```

Sex	Freq.	Percent	Cum.
Women	**31**	**51.67**	**51.67**
Men	**29**	**48.33**	**100.00**
Total	**60**	**100.00**	

```
129 . su w1Age if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**60**	**47.555**	**8.427204**	**30.3**	**63.1**

```
130 . tab w1Agebr if sample_final==1 & LnNFLw1tert==2
```

w1Agebr	Freq.	Percent	Cum.
0	**36**	**60.00**	**60.00**
1	**24**	**40.00**	**100.00**
Total	**60**	**100.00**	

```
131 . tab Race if sample_final==1 & LnNFLw1tert==2
```

Race	Freq.	Percent	Cum.
White	**36**	**60.00**	**60.00**
AfrAm	**24**	**40.00**	**100.00**
Total	**60**	**100.00**	

```
132 . tab PovStat if sample_final==1 & LnNFLw1tert==2
```

Poverty status	Freq.	Percent	Cum.
Above	**40**	**66.67**	**66.67**
Below	**20**	**33.33**	**100.00**
Total	**60**	**100.00**	

```
133 .
134 . su TIME_V1SCAN if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	**60**	**1857.833**	**657.5694**	**832**	**3685**

```
135 . su TIME_V2SCAN if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	**60**	**333.3833**	**391.7555**	**26**	**1830**

```
136 .
137 .
138 .
139 . ****IMPUTED DATA COVARIATES*****
140 . use finaldata_imputed, clear

141 .
142 .
143 . capture drop LnNFLw1tert

144 .
145 . xtile LnNFLw1tert=LnNFLw1 if sample_final==1, nq(3)

146 . bysort LnNFLw1tert: su LnNFLw1
```

-> LnNFLw1tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**1.486955**	**.2755668**	**.6022635**	**1.809636**

-> LnNFLw1tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**1.990746**	**.1043826**	**1.814715**	**2.185936**

-> LnNFLw1tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**354**	**2.565756**	**.4066007**	**2.188571**	**4.286799**

-> LnNFLw1tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**3,090**	**1.969974**	**.4996725**	**.2497199**	**4.355302**

```
147 .
148 . save, replace
    file finaldata_imputed.dta saved

149 .
150 .
151 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
152 .
153 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1BMI	**29.42645**	**.8165646**	**27.79137**	**31.06153**

```
154 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Proportion estimation             Number of obs   =         60
                                      Average RVI     =     0.0128
                                      Largest FMI     =     0.0262
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      55.27
                                              avg     =      56.06
    Within VCE type:     Analytic             max     =      57.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1dxDiabetes				
no	**.68**	**.0607667**	**.5582606**	**.8017394**
pre-diabetes	**.2033333**	**.0525903**	**.0979517**	**.308715**
diabetes	**.1166667**	**.0414438**	**.0336798**	**.1996535**

```
155 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Glucose	**99.58333**	**2.585082**	**94.40699**	**104.7597**

```
156 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.2366
                                  Largest FMI     =     0.2115
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      32.46
                                          avg     =      32.46
Within VCE type:     Analytic             max     =      32.46
```

	Mean	Std. err.	[95% conf.	interval]
w1Creatinine	**.8902139**	**.0353663**	**.818215**	**.9622128**

```
157 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1USpecGrav	**1.020483**	**.0006903**	**1.019101**	**1.021866**

```
158 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1BUN	**14.03333**	**.5174725**	**12.99715**	**15.06952**

```
159 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1ALP |      74.6   3.148509      68.29545    80.90455
------------------------------------------------------------------------------

160 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
  w1UricAcid |      5.79   .2350346      5.319369    6.260631
------------------------------------------------------------------------------

161 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
   w1Albumin |      4.38   .0327462      4.314429    4.445571
------------------------------------------------------------------------------

162 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw1tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0233
                                      Largest FMI     =     0.0248
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      55.39
                                              avg     =      55.39
    Within VCE type:     Analytic             max     =      55.39
```

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.744599**	**.2390396**	**2.265629**	**3.223568**

```
163 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.1485
                                  Largest FMI     =     0.1410
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      41.17
                                          avg     =      41.17
Within VCE type:     Analytic             max     =      41.17
```

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**22.20095**	**1.471339**	**19.22989**	**25.17202**

```
164 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0284
                                  Largest FMI     =     0.0298
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      54.94
                                          avg     =      54.94
Within VCE type:     Analytic             max     =      54.94
```

			Normal	
	Proportion	Std. err.	[95% conf.	interval]
w1currdrugs				
0	**.83**	**.049169**	**.7314608**	**.9285392**
1	**.17**	**.049169**	**.0714608**	**.2685392**

```
165 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw1tert==2

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

			Normal	
	Proportion	Std. err.	[95% conf.	interval]
w1SRH				
1	**.25**	**.0559017**	**.1380629**	**.3619371**
2	**.3166667**	**.060054**	**.196415**	**.4369183**
3	**.4333333**	**.0639734**	**.3052336**	**.5614331**

```
166 .
167 .
168 .
169 .
170 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

171 .
172 .
173 .
174 .
175 . su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw1tert==2, det
```

LnNFLw1

Percentiles		Smallest		
1%	**1.814715**	**1.814715**		
5%	**1.831136**	**1.825625**		
10%	**1.839244**	**1.829242**	Obs	**60**
25%	**1.911617**	**1.83303**	Sum of wgt.	**60**
50%	**1.976598**		Mean	**1.990746**
		Largest	Std. dev.	**.1051172**
75%	**2.091672**	**2.144864**		
90%	**2.132314**	**2.146448**	Variance	**.0110496**
95%	**2.145656**	**2.153834**	Skewness	**.0050463**
99%	**2.185936**	**2.185936**	Kurtosis	**1.798854**

LnNFLw3

Percentiles		Smallest		
1%	**1.459152**	**1.459152**		
5%	**1.681757**	**1.604955**		
10%	**1.787286**	**1.656273**	Obs	**60**
25%	**2.001289**	**1.707241**	Sum of wgt.	**60**
50%	**2.188144**		Mean	**2.25229**
		Largest	Std. dev.	**.5388085**
75%	**2.373957**	**2.720512**		
90%	**2.604201**	**3.34961**	Variance	**.2903146**
95%	**3.035061**	**3.363655**	Skewness	**3.446234**
99%	**5.371432**	**5.371432**	Kurtosis	**20.2222**

```
176 . su LnNFLw3 if sample_final==1 & LnNFLw1tert==2, det
```

LnNFLw3

Percentiles		Smallest		
1%	**1.459152**	**1.459152**		
5%	**1.681757**	**1.604955**		
10%	**1.787286**	**1.656273**	Obs	**60**
25%	**2.001289**	**1.707241**	Sum of wgt.	**60**
50%	**2.188144**		Mean	**2.25229**
		Largest	Std. dev.	**.5388085**
75%	**2.373957**	**2.720512**		
90%	**2.604201**	**3.34961**	Variance	**.2903146**
95%	**3.035061**	**3.363655**	Skewness	**3.446234**
99%	**5.371432**	**5.371432**	Kurtosis	**20.2222**

```
177 . su bayes1LnNFL if sample_final==1 & LnNFLw1tert==2, det

                    (mean) bayes1LnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.0860051      -.0860051
 5%    -.0414293      -.0446257
10%     -.021144      -.0438204       Obs                  60
25%     .0023566      -.0390382       Sum of wgt.          60

50%     .0373602                      Mean           .0476904
                       Largest       Std. dev.      .0816892
75%     .0706612       .1136998
90%     .0988424       .2038959       Variance       .0066731
95%     .1587979       .2088654       Skewness       3.398404
99%     .5216877       .5216877       Kurtosis       20.32819

178 . su deltaLnNFL if sample_final==1 & LnNFLw1tert==2, det

                       deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.1213219      -.1213219
 5%    -.0636433      -.1134285
10%    -.0441438      -.0706888       Obs                  60
25%    -.0051147      -.0565979       Sum of wgt.          60

50%     .0448441                      Mean           .0598992
                       Largest       Std. dev.      .1095124
75%     .0982136       .1905837
90%     .1475227       .2674375       Variance        .011993
95%     .2290106       .2896849       Skewness       2.653384
99%     .6446922       .6446922       Kurtosis       15.02942

179 .
180 . su ICV_volM2 if sample_final==1 & LnNFLw1tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         60     1344990    148919.8    1000900    1756980

181 .
182 . su TOTALBRAIN if sample_final==1 & LnNFLw1tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
  TOTALBRAIN |         60     1144965    131261.6   841675.3    1512220

183 . su GM if sample_final==1 & LnNFLw1tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         60    644496.9    72860.25     475422   817053.6
```

```
184 . su WM if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
WM	**60**	**458894.4**	**58998.29**	**329097.6**	**638378.4**

```
185 .
186 .
187 . su FRONTAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**60**	**93621**	**10930.77**	**71704.8**	**120338.4**

```
188 . su FRONTAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_L_volM2	**60**	**85499.4**	**11285.31**	**61238.4**	**119732.4**

```
189 . su TEMPORAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**50786.32**	**6932.436**	**36861.6**	**67758**

```
190 . su TEMPORAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	**60**	**49613.28**	**6900.247**	**37683.6**	**72369.6**

```
191 . su PARIETAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**46169.52**	**6382.856**	**31327.2**	**61736.4**

```
192 . su PARIETAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	**60**	**44200.9**	**6107.55**	**31485.6**	**59677.2**

```
193 . su OCCIPITAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**38573.86**	**6186.127**	**26013.6**	**52540.8**

```
194 . su OCCIPITAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	**60**	**21360.62**	**3142.96**	**14732.4**	**28339.2**

```
195 .
196 .
197 . su FRONTAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**60**	**93666.38**	**11203.97**	**68850**	**123519.6**

```
198 . su FRONTAL_WM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_R_volM2	**60**	**87598.06**	**11557.15**	**63043.2**	**123552**

```
199 . su TEMPORAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**51881.44**	**6486.472**	**39058.8**	**67380**

```
200 . su TEMPORAL_WM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_R_volM2	**60**	**50194.54**	**6840.556**	**36202.8**	**71120.4**

```
201 . su PARIETAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**46855.18**	**6436.704**	**32137.2**	**60976.8**

```
202 . su PARIETAL_WM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_R_volM2	**60**	**41923.6**	**5981.604**	**29893.2**	**57961.2**

```
203 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**39733.52**	**6087.218**	**27355.2**	**55772.4**

```
204 . su OCCIPITAL_WM_R if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPIT~WM_R	**60**	**21015.58**	**3042.065**	**15376.8**	**28306.8**

```
205 .
206 .
207 . su Left_Hippocampus if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	**60**	**3552.94**	**400.4122**	**2893.2**	**4846.8**

```
208 . su Right_Hippocampus if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	60	3835.7	439.1133	3045.6	5179.2

```
209 .
210 . su LnLesion_Volume if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	60	6.129041	1.143113	3.015535	8.853094

```
211 .
212 . su Left_Hippocampuspct if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	60	.265405	.0256585	.2078557	.3268734

```
213 . su Right_Hippocampuspct if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	60	.2862407	.0254074	.2311856	.3567998

```
214 .
215 . su LnLesion_Volumepct if sample_final==1 & LnNFLw1tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	60	-3.371691	1.147684	-6.453584	-.6333407

```
216 .
217 .
218 . **************LnNFL, v1, T3*****************************
219 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

220 .
221 . tab Sex if sample_final==1 & LnNFLw1tert==3
```

Sex	Freq.	Percent	Cum.
Women	32	54.24	54.24
Men	27	45.76	100.00
Total	59	100.00	

```
222 . su w1Age if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	59	53.8678	6.749213	38.7	64.9

```
223 . tab w1Agebr if sample_final==1 & LnNFLw1tert==3
```

w1Agebr	Freq.	Percent	Cum.
0	20	33.90	33.90
1	39	66.10	100.00
Total	59	100.00	

```
224 . tab Race if sample_final==1 & LnNFLw1tert==3
```

Race	Freq.	Percent	Cum.
White	39	66.10	66.10
AfrAm	20	33.90	100.00
Total	59	100.00	

```
225 . tab PovStat if sample_final==1 & LnNFLw1tert==3
```

Poverty status	Freq.	Percent	Cum.
Above	49	83.05	83.05
Below	10	16.95	100.00
Total	59	100.00	

```
226 .
227 . su TIME_V1SCAN if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	59	1973.085	609.9428	845	3438

```
228 . su TIME_V2SCAN if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	59	412.9831	454.7743	42	1674

```
229 .
230 .
231 .
232 . ****IMPUTED DATA COVARIATES*****
233 . use finaldata_imputed, clear

234 .
235 .
236 . capture drop LnNFLw1tert

237 .
238 . xtile LnNFLw1tert=LnNFLw1 if sample_final==1, nq(3)
```

```
239 .
240 . save, replace
    file finaldata_imputed.dta saved

241 .
242 .
243 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
244 .
245 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw1tert==3

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         59
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      56.10
                                              avg     =      56.10
    Within VCE type:     Analytic             max     =      56.10

    ------------------------------------------------------------------------------
                 |       Mean   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
           w1BMI |   27.64557   .7436412      26.15593     29.1352
    ------------------------------------------------------------------------------

246 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw1tert==3

    Multiple-imputation estimates     Imputations     =          5
    Proportion estimation             Number of obs   =         59
                                      Average RVI     =     0.0339
                                      Largest FMI     =     0.0395
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      53.09
                                              avg     =      53.55
    Within VCE type:     Analytic             max     =      53.80

    ------------------------------------------------------------------------------
                 |                                                Normal
                 | Proportion   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
     w1dxDiabetes |
              no |   .7220339   .0591943      .6033467    .8407211
    pre-diabetes |   .1559322   .0479476      .0597932    .2520712
        diabetes |   .1220339   .0434065      .0349747    .2090931
    ------------------------------------------------------------------------------

247 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw1tert==3

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         59
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      56.10
                                              avg     =      56.10
    Within VCE type:     Analytic             max     =      56.10

    ------------------------------------------------------------------------------
                 |       Mean   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
       w1Glucose |    102.678   4.923283      92.81583    112.5401
    ------------------------------------------------------------------------------
```

```
248 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.5360
                                  Largest FMI     =     0.3932
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      17.29
                                          avg     =      17.29
Within VCE type:     Analytic             max     =      17.29

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
w1Creatinine |   .9169274   .0366482      .8397066    .9941482
------------------------------------------------------------------------------

249 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0354
                                  Largest FMI     =     0.0369
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      53.33
                                          avg     =      53.33
Within VCE type:     Analytic             max     =      53.33

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
 w1USpecGrav |   1.018169     .00079      1.016584    1.019753
------------------------------------------------------------------------------

250 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10

------------------------------------------------------------------------------
             |      Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1BUN |   14.55932   .5577524      13.44205    15.67659
------------------------------------------------------------------------------

251 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Mean	Std. err.	[95% conf.	interval]
w1ALP	**80.18644**	**2.390253**	**75.39837**	**84.97451**

```
252 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Mean	Std. err.	[95% conf.	interval]
w1UricAcid	**5.332203**	**.1522756**	**5.027171**	**5.637236**

```
253 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Albumin	**4.3**	**.0340179**	**4.231857**	**4.368143**

```
254 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.777966**	**.3045828**	**2.167837**	**3.388095**

```
255 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.1728
                                  Largest FMI     =     0.1615
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      37.97
                                          avg     =      37.97
Within VCE type:     Analytic             max     =      37.97
```

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**26.43186**	**1.602978**	**23.18672**	**29.677**

```
256 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         59
                                  Average RVI     =     0.1373
                                  Largest FMI     =     0.1315
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      41.81
                                          avg     =      41.81
Within VCE type:     Analytic             max     =      41.81
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1currdrugs				
0	**.7389831**	**.0609291**	**.6160068**	**.8619593**
1	**.2610169**	**.0609291**	**.1380407**	**.3839932**

```
257 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw1tert==3

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1SRH				
1	**.220339**	**.0539601**	**.1122481**	**.3284298**
2	**.4067797**	**.0639531**	**.2786712**	**.5348882**
3	**.3728814**	**.0629556**	**.2467711**	**.4989916**

```
. 
. 
. 
. use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

. 
. 
. 
. su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw1tert==3, det
```

LnNFLw1

Percentiles		Smallest		
1%	**2.188571**	**2.188571**		
5%	**2.19511**	**2.193836**		
10%	**2.21168**	**2.19511**	Obs	**59**
25%	**2.256332**	**2.20073**	Sum of wgt.	**59**
50%	**2.510329**		Mean	**2.565756**
		Largest	Std. dev.	**.4095113**
75%	**2.681626**	**3.422423**		
90%	**2.992629**	**3.673317**	Variance	**.1676995**
95%	**3.673317**	**3.739766**	Skewness	**2.095367**
99%	**4.286799**	**4.286799**	Kurtosis	**8.187337**

LnNFLw3

Percentiles		Smallest		
1%	**1.437115**	**1.437115**		
5%	**2.014852**	**1.870393**		
10%	**2.115338**	**2.014852**	Obs	**59**
25%	**2.235727**	**2.025645**	Sum of wgt.	**59**
50%	**2.603461**		Mean	**2.597268**
		Largest	Std. dev.	**.4659789**
75%	**2.82942**	**3.463479**		
90%	**3.155058**	**3.523666**	Variance	**.2171363**
95%	**3.523666**	**3.591589**	Skewness	**.7370338**
99%	**4.2382**	**4.2382**	Kurtosis	**4.737258**

```
. su LnNFLw3 if sample_final==1 & LnNFLw1tert==3, det
```

LnNFLw3

Percentiles		Smallest		
1%	**1.437115**	**1.437115**		
5%	**2.014852**	**1.870393**		
10%	**2.115338**	**2.014852**	Obs	**59**
25%	**2.235727**	**2.025645**	Sum of wgt.	**59**
50%	**2.603461**		Mean	**2.597268**
		Largest	Std. dev.	**.4659789**
75%	**2.82942**	**3.463479**		
90%	**3.155058**	**3.523666**	Variance	**.2171363**
95%	**3.523666**	**3.591589**	Skewness	**.7370338**
99%	**4.2382**	**4.2382**	Kurtosis	**4.737258**

```
269 . su bayes1LnNFL if sample_final==1 & LnNFLw1tert==3, det

                    (mean) bayes1LnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.3087366      -.3087366
 5%    -.0914577       -.095264
10%    -.0705693      -.0914577       Obs                  59
25%    -.0231424       -.084728       Sum of wgt.          59

50%     .0192218                      Mean           .0133515
                       Largest       Std. dev.      .0776664
75%     .0432413       .0994548
90%     .0857434       .1189432       Variance       .0060321
95%     .1189432       .1205142       Skewness      -.1001254
99%     .3295927       .3295927       Kurtosis       10.49645

270 . su deltaLnNFL if sample_final==1 & LnNFLw1tert==3, det

                        deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.4373254      -.4373254
 5%    -.1839202      -.4083219
10%    -.1435545      -.1839202       Obs                  59
25%    -.0440487      -.1746917       Sum of wgt.          59

50%     .0134611                      Mean          -.0015555
                       Largest       Std. dev.      .1244079
75%     .0533087       .1194399
90%     .1114036        .145863       Variance       .0154773
95%      .145863        .157369       Skewness      -.5674087
99%     .4469894       .4469894       Kurtosis       8.022725

271 .
272 .
273 . su ICV_volM2 if sample_final==1 & LnNFLw1tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         59     1345624    148281.5    1104124    1689944

274 .
275 .
276 . su TOTALBRAIN if sample_final==1 & LnNFLw1tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   TOTALBRAIN |         59     1136569    115738.9    921507.6    1420098

277 . su GM if sample_final==1 & LnNFLw1tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         59    632217.4    59946.77    495620.4    781599.6
```

```
278 . su WM if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
WM	59	456463.8	52520.21	350796	595353.6

```
279 .
280 .
281 . su FRONTAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	59	90943.19	9581.201	67719.6	113550

```
282 . su FRONTAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_L_volM2	59	85030.2	10486.68	63129.6	110815.2

```
283 . su TEMPORAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	59	49580.26	5689.952	39307.2	62454

```
284 . su TEMPORAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	59	49367.05	6015.137	38341.2	63195.6

```
285 . su PARIETAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	59	45511.27	5404.14	32925.6	56282.4

```
286 . su PARIETAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	59	43953.01	5899.117	34210.8	62379.6

```
287 . su OCCIPITAL_GM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	59	37293.16	4689.634	27051.6	49680

```
288 . su OCCIPITAL_WM_L_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	59	20827.36	2932.337	14935.2	31482

```
289 .
290 .
291 . su FRONTAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**59**	**91033.47**	**9397.243**	**69409.2**	**115717.2**

```
292 . su FRONTAL_WM_R if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_WM_R	**59**	**87385.76**	**10793.76**	**65850**	**115912.8**

```
293 . su TEMPORAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**59**	**50148.61**	**5577.448**	**39654**	**62004**

```
294 . su TEMPORAL_WM_R if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_W~R	**59**	**49715.8**	**5855.344**	**39224.4**	**65428.8**

```
295 . su PARIETAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**59**	**45865.71**	**5471.415**	**34782**	**58681.2**

```
296 . su PARIETAL_WM_R if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_W~R	**59**	**41778.59**	**5664.766**	**31885.2**	**58342.8**

```
297 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**59**	**39232.7**	**5214.88**	**30126**	**52215.6**

```
298 . su OCCIPITAL_WM_R if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPIT~WM_R	**59**	**20993.43**	**2989.519**	**15556.8**	**28762.8**

```
299 .
300 .
301 . su Left_Hippocampus if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	**59**	**3498.692**	**367.86**	**2732.4**	**4269.6**

```
302 . su Right_Hippocampus if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	**59**	**3797.472**	**379.7121**	**3073.2**	**4621.2**

```
303 .
304 . su LnLesion_Volume if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	**59**	**6.504715**	**1.161124**	**3.273364**	**8.907179**

```
305 .
306 . su Left_Hippocampuspct if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	**59**	**.2612304**	**.0240266**	**.1973778**	**.3126772**

```
307 . su Right_Hippocampuspct if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	**59**	**.2835293**	**.0241994**	**.2221663**	**.3304527**

```
308 .
309 . su LnLesion_Volumepct if sample_final==1 & LnNFLw1tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	**59**	**-2.996586**	**1.152029**	**-6.109888**	**-.7208845**

```
310 .
311 . ***************BY LnNFL tertile, V1************************
312 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

313 .
314 . **Overall**
315 .
316 . tab Sex LnNFLw1tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

Sex	3 quantiles of LnNFLw1 1	2	3	Total
Women	**36** **36.36** **60.00**	**31** **31.31** **51.67**	**32** **32.32** **54.24**	**99** **100.00** **55.31**
Men	**24** **30.00** **40.00**	**29** **36.25** **48.33**	**27** **33.75** **45.76**	**80** **100.00** **44.69**
Total	**60** **33.52** **100.00**	**60** **33.52** **100.00**	**59** **32.96** **100.00**	**179** **100.00** **100.00**

Pearson chi2(**2**) = **0.8836** Pr = **0.643**

317 . reg w1Age LnNFLw1tert if sample_final==1

Source	SS	df	MS	Number of obs	=	**179**
				F(1, 177)	=	**71.19**
Model	**4233.38051**	**1**	**4233.38051**	Prob > F	=	**0.0000**
Residual	**10525.7259**	**177**	**59.4673777**	R-squared	=	**0.2868**
				Adj R-squared	=	**0.2828**
Total	**14759.1064**	**178**	**82.9163279**	Root MSE	=	**7.7115**

w1Age	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**5.964587**	**.7069295**	**8.44**	**0.000**	**4.569492**	**7.359682**
_cons	**35.85666**	**1.523176**	**23.54**	**0.000**	**32.85074**	**38.86258**

318 . tab w1Agebr LnNFLw1tert if sample_final==1, row col chi

Key
frequency *row percentage* *column percentage*

w1Agebr	3 quantiles of LnNFLw1 1	2	3	Total
0	**50** **47.17** **83.33**	**36** **33.96** **60.00**	**20** **18.87** **33.90**	**106** **100.00** **59.22**
1	**10** **13.70** **16.67**	**24** **32.88** **40.00**	**39** **53.42** **66.10**	**73** **100.00** **40.78**
Total	**60** **33.52** **100.00**	**60** **33.52** **100.00**	**59** **32.96** **100.00**	**179** **100.00** **100.00**

Pearson chi2(**2**) = **30.1254** Pr = **0.000**

319 . tab Race LnNFLw1tert if sample_final==1, row col chi

Key
frequency *row percentage* *column percentage*

Race	3 quantiles of LnNFLw1 1	2	3	Total
White	**30**	**36**	**39**	**105**
	28.57	**34.29**	**37.14**	**100.00**
	50.00	**60.00**	**66.10**	**58.66**
AfrAm	**30**	**24**	**20**	**74**
	40.54	**32.43**	**27.03**	**100.00**
	50.00	**40.00**	**33.90**	**41.34**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **3.2473** Pr = **0.197**

```
320 . tab PovStat LnNFLw1tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

Poverty status	3 quantiles of LnNFLw1 1	2	3	Total
Above	**34**	**40**	**49**	**123**
	27.64	**32.52**	**39.84**	**100.00**
	56.67	**66.67**	**83.05**	**68.72**
Below	**26**	**20**	**10**	**56**
	46.43	**35.71**	**17.86**	**100.00**
	43.33	**33.33**	**16.95**	**31.28**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **9.8090** Pr = **0.007**

```
321 .
322 . reg TIME_V1SCAN LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= **179**
				F(1, 177)	= **1.28**
Model	**513495.794**	**1**	**513495.794**	Prob > F	= **0.2592**
Residual	**70950971.1**	**177**	**400852.944**	R-squared	= **0.0072**
				Adj R-squared	= **0.0016**
Total	**71464466.9**	**178**	**401485.769**	Root MSE	= **633.13**

TIME_V1SCAN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**-65.69089**	**58.04025**	**-1.13**	**0.259**	**-180.2308**	**48.84905**
_cons	**2109.166**	**125.0556**	**16.87**	**0.000**	**1862.374**	**2355.958**

```
323 . reg TIME_V2SCAN LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
Model	**166701.719**	**1**	**166701.719**	Number of obs	= **179**
Residual	**34682537.9**	**177**	**195946.542**	F(1, 177)	= **0.85**
				Prob > F	= **0.3576**
				R-squared	= **0.0048**
				Adj R-squared	= **-0.0008**
Total	**34849239.6**	**178**	**195782.245**	Root MSE	= **442.66**

TIME_V2SCAN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**-37.42887**	**40.57939**	**-0.92**	**0.358**	**-117.5106**	**42.65282**
_cons	**485.8218**	**87.43383**	**5.56**	**0.000**	**313.2749**	**658.3688**

```
324 .
325 .
326 . ****IMPUTED DATA COVARIATES*****
327 . use finaldata_imputed, clear

328 .
329 .
330 . mi estimate: reg w1BMI LnNFLw1tert if sample_final==1
```

Multiple-imputation estimates		Imputations	= **5**
Linear regression		Number of obs	= **179**
		Average RVI	= **0.0000**
		Largest FMI	= **0.0000**
		Complete DF	= **177**
DF adjustment: **Small sample**		DF: min	= **175.03**
		avg	= **175.03**
		max	= **175.03**
Model F test: **Equal FMI**		F(**1, 175.0**)	= **7.96**
Within VCE type: **OLS**		Prob > F	= **0.0053**

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**-1.631448**	**.5783473**	**-2.82**	**0.005**	**-2.77288**	**-.4900163**
_cons	**32.59028**	**1.246128**	**26.15**	**0.000**	**30.13091**	**35.04965**

```
331 . mi estimate: mlogit w1dxDiabetes LnNFLw1tert if sample_final==1,baseoutcome(0)
```

Multiple-imputation estimates		Imputations	= **5**
Multinomial logistic regression		Number of obs	= **179**
		Average RVI	= **0.0248**
		Largest FMI	= **0.0350**
DF adjustment: **Large sample**		DF: min	= **3,380.07**
		avg	= **23,146.14**
		max	= **70,030.68**
Model F test: **Equal FMI**		F(**2, 3547.1**)	= **0.23**
Within VCE type: **OIM**		Prob > F	= **0.7951**

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw1tert	**-.0221319**	**.2482207**	**-0.09**	**0.929**	**-.5088099**	**.464546**
_cons	**-1.357281**	**.5268516**	**-2.58**	**0.010**	**-2.390089**	**-.3244723**
diabetes						
LnNFLw1tert	**.1987047**	**.3051671**	**0.65**	**0.515**	**-.3994681**	**.7968775**
_cons	**-2.306183**	**.6825967**	**-3.38**	**0.001**	**-3.644071**	**-.9682949**

332 . mi estimate: reg w1Glucose LnNFLw1tert if sample_final==1

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **179**
Average RVI = **0.0000**
Largest FMI = **0.0000**
Complete DF = **177**
DF adjustment: **Small sample** — DF: min = **175.03**
avg = **175.03**
max = **175.03**
Model F test: **Equal FMI** — F(**1, 175.0**) = **1.02**
Within VCE type: **OLS** — Prob > F = **0.3133**

w1Glucose	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**2.604272**	**2.575568**	**1.01**	**0.313**	**-2.478894**	**7.687439**
_cons	**94.69986**	**5.549413**	**17.06**	**0.000**	**83.74748**	**105.6522**

333 . mi estimate: reg w1Creatinine LnNFLw1tert if sample_final==1

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **179**
Average RVI = **0.3205**
Largest FMI = **0.3497**
Complete DF = **177**
DF adjustment: **Small sample** — DF: min = **30.09**
avg = **34.59**
max = **39.09**
Model F test: **Equal FMI** — F(**1, 30.1**) = **0.90**
Within VCE type: **OLS** — Prob > F = **0.3513**

w1Creatinine	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**.0248309**	**.0262293**	**0.95**	**0.351**	**-.0287297**	**.0783915**
_cons	**.8418002**	**.0546036**	**15.42**	**0.000**	**.7313622**	**.9522382**

```
334 . mi estimate: reg w1USpecGrav LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0131
                                                Largest FMI       =     0.0159
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     170.55
                                                        avg       =     172.13
                                                        max       =     173.71
Model F test:       Equal FMI                   F(   1,  170.5)   =       0.76
Within VCE type:          OLS                   Prob > F          =     0.3839

------------------------------------------------------------------------------
  w1USpecGrav | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw1tert |  -.0005107    .000585    -0.87   0.384    -.0016654    .0006441
        _cons |   1.020309   .0012544   813.36   0.000     1.017833    1.022785
------------------------------------------------------------------------------

335 . mi estimate: reg w1BUN LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       6.24
Within VCE type:          OLS                   Prob > F          =     0.0134

------------------------------------------------------------------------------
        w1BUN | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw1tert |   .9475117   .3792184     2.50   0.013     .1990825    1.695941
        _cons |   11.85887   .8170778    14.51   0.000     10.24628    13.47147
------------------------------------------------------------------------------

336 . mi estimate: reg w1ALP LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       5.95
Within VCE type:          OLS                   Prob > F          =     0.0157

------------------------------------------------------------------------------
        w1ALP | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw1tert |   4.632207   1.898477     2.44   0.016     .8853528     8.37906
        _cons |   65.96817   4.090529    16.13   0.000     57.89506    74.04128
------------------------------------------------------------------------------
```

```
337 . mi estimate: reg w1UricAcid LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       0.01
Within VCE type:          OLS                   Prob > F          =     0.9158

------------------------------------------------------------------------------
  w1UricAcid | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |  -.0143192   .1351876    -0.11   0.916    -.2811269    .2524884
       _cons |   5.524648   .2912802    18.97   0.000     4.949774    6.099521
------------------------------------------------------------------------------

338 . mi estimate: reg w1Albumin LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       0.82
Within VCE type:          OLS                   Prob > F          =     0.3664

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   -.022338   .0246679    -0.91   0.366    -.0710229    .0263468
       _cons |   4.386451   .0531504    82.53   0.000     4.281553    4.491349
------------------------------------------------------------------------------

339 . mi estimate: reg w1EosinPct LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0034
                                                Largest FMI       =     0.0011
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     174.86
                                                        avg       =     174.95
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       0.02
Within VCE type:          OLS                   Prob > F          =     0.8804

------------------------------------------------------------------------------
  w1EosinPct | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   .0272993   .1811963     0.15   0.880    -.3303114    .3849101
       _cons |   2.694023   .3905932     6.90   0.000     1.923139    3.464906
------------------------------------------------------------------------------
```

```
340 . mi estimate: reg w1TotalD LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.1233
                                                Largest FMI       =     0.1664
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =      78.40
                                                        avg       =      92.30
                                                        max       =     106.19
Model F test:       Equal FMI                   F(   1,   78.4)   =      14.94
Within VCE type:          OLS                   Prob > F          =     0.0002

------------------------------------------------------------------------------
    w1TotalD | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   3.989669   1.032303     3.86   0.000     1.934678    6.044661
       _cons |   14.38153   2.166934     6.64   0.000     10.08547     18.6776
------------------------------------------------------------------------------

341 . mi estimate: reg w1currdrugs LnNFLw1tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.1100
                                                Largest FMI       =     0.1454
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =      88.92
                                                        avg       =     107.49
                                                        max       =     126.07
Model F test:       Equal FMI                   F(   1,   88.9)   =       1.22
Within VCE type:          OLS                   Prob > F          =     0.2725

------------------------------------------------------------------------------
  w1currdrugs | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
 LnNFLw1tert |   .0437089   .0395836     1.10   0.272    -.0349438    .1223616
       _cons |   .1139437   .0827617     1.38   0.171    -.0498385    .2777258
------------------------------------------------------------------------------

342 . mi estimate: mlogit w1SRH LnNFLw1tert if sample_final==1, baseoutcome(1)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(   2,       .)  =       0.25
Within VCE type:          OIM                   Prob > F          =     0.7815

------------------------------------------------------------------------------
       w1SRH | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
1            |  (base outcome)
-------------+----------------------------------------------------------------
2            |
 LnNFLw1tert |  -.0544605   .2480576    -0.22   0.826    -.5406444    .4317234
       _cons |   .6368235   .5443843     1.17   0.242    -.4301501    1.703797
-------------+----------------------------------------------------------------
3            |
 LnNFLw1tert |  -.1587248   .2432919    -0.65   0.514    -.6355682    .3181187
       _cons |   .9577326   .5287793     1.81   0.070    -.0786558    1.994121
------------------------------------------------------------------------------
```

```
343 .
344 .
345 .
346 . mi estimate: reg w1BMI LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       3.38
Within VCE type:          OLS                   Prob > F          =     0.0061
```

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-2.406026	.6804901	-3.54	0.001	-3.749267	-1.062786
Sex	-1.853823	.9440456	-1.96	0.051	-3.717304	.0096585
w1Age	.1326314	.0619629	2.14	0.034	.0103208	.254942
Race	-.1048972	.9653124	-0.11	0.914	-2.010357	1.800563
PovStat	-.2179755	1.060946	-0.21	0.837	-2.31221	1.876259
_cons	30.91841	3.869312	7.99	0.000	23.28065	38.55616

```
347 . mi estimate: mlogit w1dxDiabetes LnNFLw1tert Sex w1Age Race PovStat if sample_final==1,baseoutcome(0)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0276
                                                Largest FMI       =     0.0884
DF adjustment:   Large sample                   DF:     min       =     551.84
                                                        avg       = 111,887.73
                                                        max       = 635,478.27
Model F test:       Equal FMI                   F(  10,42201.1)   =       1.41
Within VCE type:          OIM                   Prob > F          =     0.1680
```

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw1tert	-.3753537	.3095693	-1.21	0.226	-.9834321	.2327247
Sex	1.116427	.4301215	2.60	0.009	.2733568	1.959497
w1Age	.0526048	.0292906	1.80	0.073	-.0048817	.1100913
Race	-.5836049	.4646035	-1.26	0.209	-1.495622	.3284119
PovStat	.1580574	.4807957	0.33	0.742	-.7844011	1.100516
_cons	-4.307414	1.823565	-2.36	0.018	-7.881714	-.7331147
diabetes						
LnNFLw1tert	-.1624356	.3655007	-0.44	0.657	-.8789591	.554088
Sex	.3559102	.5039446	0.71	0.480	-.6318343	1.343655
w1Age	.059972	.0342761	1.75	0.080	-.007209	.127153
Race	.0592113	.5126346	0.12	0.908	-.9456394	1.064062
PovStat	-.0315597	.591161	-0.05	0.957	-1.190217	1.127097
_cons	-5.053088	2.197546	-2.30	0.021	-9.360207	-.7459692

```
348 . mi estimate: reg w1Glucose LnNFLw1tert Sex  w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       1.56
Within VCE type:          OLS                   Prob > F          =     0.1728

------------------------------------------------------------------------------
   w1Glucose | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   .5412415    3.04688     0.18   0.859    -5.473091    6.555574
         Sex |   7.770787   4.226945     1.84   0.068    -.5729106    16.11449
       w1Age |   .2770811   .2774378     1.00   0.319     -.270562    .8247243
        Race |  -6.574236   4.322166    -1.52   0.130     -15.1059    1.957422
     PovStat |   2.612314   4.750363     0.55   0.583    -6.764576     11.9892
       _cons |   80.20181   17.32476     4.63   0.000     46.00392    114.3997
------------------------------------------------------------------------------

349 . mi estimate: reg w1Creatinine LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.2918
                                                Largest FMI       =     0.5206
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =      15.23
                                                        avg       =      64.05
                                                        max       =     151.89
Model F test:       Equal FMI                   F(   5,   99.3)   =       7.97
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
w1Creatinine | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |    .015498   .0256612     0.60   0.548    -.0358496    .0668456
         Sex |   .2185006   .0365562     5.98   0.000     .1449067    .2920945
       w1Age |   .0011153    .002534     0.44   0.663    -.0040621    .0062926
        Race |   .0451316   .0352858     1.28   0.204    -.0250545    .1153176
     PovStat |   .0000962   .0366644     0.00   0.998    -.0723419    .0725342
       _cons |   .4270868   .1792379     2.38   0.031     .0455588    .8086147
------------------------------------------------------------------------------

350 . mi estimate: reg w1USpecGrav LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0130
                                                Largest FMI       =     0.0292
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     160.79
                                                        avg       =     166.48
                                                        max       =     169.50
Model F test:       Equal FMI                   F(   5,  170.6)   =       1.74
Within VCE type:          OLS                   Prob > F          =     0.1288
```

w1USpecGrav	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0001661	.0006883	-0.24	0.810	-.0015249	.0011927
Sex	.0023369	.0009556	2.45	0.016	.0004503	.0042236
w1Age	-.0000354	.0000625	-0.57	0.573	-.0001588	.0000881
Race	.0000875	.000976	0.09	0.929	-.0018392	.0020143
PovStat	.0014741	.0010823	1.36	0.175	-.0006633	.0036115
_cons	1.015869	.0039315	258.40	0.000	1.008107	1.023632

351 . mi estimate: reg w1BUN LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 173
DF adjustment: Small sample — DF: min = 171.03
avg = 171.03
max = 171.03
Model F test: Equal FMI — F(5, 171.0) = 7.41
Within VCE type: OLS — Prob > F = 0.0000

w1BUN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.040339	.4222884	0.10	0.924	-.7932292	.8739072
Sex	.9069954	.5858417	1.55	0.123	-.2494158	2.063407
w1Age	.1208816	.038452	3.14	0.002	.0449799	.1967833
Race	-2.299196	.5990391	-3.84	0.000	-3.481658	-1.116734
PovStat	.1922161	.658386	0.29	0.771	-1.107392	1.491825
_cons	9.580746	2.40116	3.99	0.000	4.841022	14.32047

352 . mi estimate: reg w1ALP LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 173
DF adjustment: Small sample — DF: min = 171.03
avg = 171.03
max = 171.03
Model F test: Equal FMI — F(5, 171.0) = 2.78
Within VCE type: OLS — Prob > F = 0.0192

w1ALP	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	2.567535	2.239356	1.15	0.253	-1.852801	6.98787
Sex	-6.395109	3.106665	-2.06	0.041	-12.52745	-.2627669
w1Age	.3800639	.2039076	1.86	0.064	-.0224357	.7825635
Race	-.292688	3.17665	-0.09	0.927	-6.563175	5.9778
PovStat	.3078505	3.49136	0.09	0.930	-6.583854	7.199555
_cons	61.19976	12.73313	4.81	0.000	36.06544	86.33408

```
353 . mi estimate: reg w1UricAcid LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =      10.34
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
  w1UricAcid | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |  -.3474672   .1430616    -2.43   0.016    -.6298609   -.0650736
         Sex |   1.143502   .1984697     5.76   0.000     .7517365    1.535267
       w1Age |   .0539049   .0130267     4.14   0.000     .0281912    .0796187
        Race |   .1444985   .2029407     0.71   0.477    -.2560924    .5450894
     PovStat |   .0747567    .223046     0.34   0.738    -.3655207    .5150341
       _cons |   1.658044   .8134576     2.04   0.043     .0523343    3.263753
------------------------------------------------------------------------------

354 . mi estimate: reg w1Albumin LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       2.94
Within VCE type:          OLS                   Prob > F          =     0.0142

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |  -.0180034   .0286247    -0.63   0.530    -.0745065    .0384997
         Sex |   .1320256   .0397111     3.32   0.001     .0536387    .2104125
       w1Age |  -.0025309   .0026065    -0.97   0.333    -.0076758    .0026141
        Race |  -.0533828   .0406056    -1.31   0.190    -.1335356    .0267699
     PovStat |  -.0199941   .0446284    -0.45   0.655    -.1080876    .0680994
       _cons |    4.40933   .1627617    27.09   0.000      4.08805    4.730611
------------------------------------------------------------------------------

355 . mi estimate: reg w1EosinPct LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0036
                                                Largest FMI       =     0.0121
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     168.04
                                                        avg       =     170.01
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       1.55
Within VCE type:          OLS                   Prob > F          =     0.1758
```

w1EosinPct	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.0320384	.2137622	0.15	0.881	-.3899134	.4539902
Sex	.493582	.2974744	1.66	0.099	-.0936448	1.080809
w1Age	-.0100922	.0194763	-0.52	0.605	-.0485375	.028353
Race	-.6919158	.3038437	-2.28	0.024	-1.291702	-.0921291
PovStat	.1106257	.3339439	0.33	0.741	-.5485787	.7698301
_cons	3.285047	1.222666	2.69	0.008	.8712832	5.69881

356 . mi estimate: reg w1TotalD LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.2876
Largest FMI = 0.4337
Complete DF = 173
DF adjustment: Small sample — DF: min = 21.06
avg = 63.48
max = 129.37
Model F test: Equal FMI — F(5, 94.7) = 13.14
Within VCE type: OLS — Prob > F = 0.0000

w1TotalD	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	3.060825	1.250069	2.45	0.023	.4616477	5.660003
Sex	.7840954	1.656038	0.47	0.640	-2.609413	4.177604
w1Age	-.0459203	.1064855	-0.43	0.669	-.2628157	.1709751
Race	-10.43154	1.535259	-6.79	0.000	-13.49909	-7.36399
PovStat	-2.576225	1.610466	-1.60	0.113	-5.76872	.6162695
_cons	35.41853	5.775433	6.13	0.000	23.99201	46.84506

357 . mi estimate: reg w1currdrugs LnNFLw1tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.1235
Largest FMI = 0.2318
Complete DF = 173
DF adjustment: Small sample — DF: min = 53.39
avg = 103.41
max = 143.59
Model F test: Equal FMI — F(5, 143.3) = 2.22
Within VCE type: OLS — Prob > F = 0.0553

w1currdrugs	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.0951715	.0478467	1.99	0.051	-.0005309	.1908739
Sex	-.0500635	.0625113	-0.80	0.425	-.1738553	.0737284
w1Age	-.0078713	.004409	-1.79	0.080	-.0167132	.0009706
Race	.1427732	.0627179	2.28	0.024	.0188036	.2667427
PovStat	-.0640136	.0701161	-0.91	0.363	-.2028346	.0748073
_cons	.3418624	.2548088	1.34	0.182	-.1624296	.8461544

```
358 . mi estimate: mlogit w1SRH LnNFLw1tert Sex w1Age Race PovStat if sample_final==1, baseoutcome(1)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(  10,      .)   =       0.80
Within VCE type:          OIM                   Prob > F          =     0.6293
```

w1SRH	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
1	(base outcome)					
2						
LnNFLw1tert	-.2955021	.3085653	-0.96	0.338	-.9002791	.3092748
Sex	.3408039	.4220884	0.81	0.419	-.4864741	1.168082
w1Age	.0252618	.0276475	0.91	0.361	-.0289262	.0794498
Race	-.3012042	.4220655	-0.71	0.475	-1.128437	.526029
PovStat	-.2505354	.4462252	-0.56	0.574	-1.125121	.6240499
_cons	.2269421	1.690263	0.13	0.893	-3.085912	3.539796
3						
LnNFLw1tert	-.4785017	.3051023	-1.57	0.117	-1.076491	.1194877
Sex	.5394224	.4162452	1.30	0.195	-.2764032	1.355248
w1Age	.0295952	.0272409	1.09	0.277	-.0237961	.0829864
Race	-.0991032	.4165229	-0.24	0.812	-.9154732	.7172667
PovStat	-.7508543	.4539211	-1.65	0.098	-1.640523	.1388147
_cons	.5650007	1.669335	0.34	0.735	-2.706836	3.836838

```
359 .
360 . **Further adjusted for ICV_volM2**
361 .
362 .
363 . mi estimate: reg w1BMI LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       2.91
Within VCE type:          OLS                   Prob > F          =     0.0101
```

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-2.396198	.6814697	-3.52	0.001	-3.741428	-1.050967
Sex	-2.488124	1.266434	-1.96	0.051	-4.988082	.0118336
w1Age	.1343234	.0620815	2.16	0.032	.0117737	.2568731
Race	.2326742	1.06554	0.22	0.827	-1.870716	2.336064
PovStat	-.1686171	1.064301	-0.16	0.874	-2.269562	1.932328
ICV_volM2	3.53e-06	4.68e-06	0.75	0.453	-5.72e-06	.0000128
_cons	26.47243	7.06474	3.75	0.000	12.52653	40.41832

```
364 . mi estimate: mlogit w1dxDiabetes LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1,baseoutcome(0)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0316
                                                Largest FMI       =     0.0909
DF adjustment:   Large sample                   DF:     min       =     522.86
                                                        avg       =  80,743.64
                                                        max       = 571,966.41
Model F test:       Equal FMI                   F(  12,54915.7)   =       1.25
Within VCE type:          OIM                   Prob > F          =     0.2436
```

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw1tert	-.3862711	.3131231	-1.23	0.218	-1.001405	.2288628
Sex	.7687167	.5645769	1.36	0.173	-.3380043	1.875438
w1Age	.0542767	.0295813	1.83	0.067	-.0037845	.1123379
Race	-.4016008	.4992557	-0.80	0.421	-1.380832	.57763
PovStat	.182501	.483514	0.38	0.706	-.7653127	1.130315
ICV_volM2	1.90e-06	1.98e-06	0.96	0.337	-1.98e-06	5.77e-06
_cons	-6.700813	3.094633	-2.17	0.030	-12.76625	-.6353795
diabetes						
LnNFLw1tert	-.1613267	.3669474	-0.44	0.660	-.8806921	.5580386
Sex	.1749359	.674975	0.26	0.796	-1.148552	1.498424
w1Age	.0605266	.0343832	1.76	0.078	-.0068648	.1279181
Race	.1551775	.5621114	0.28	0.783	-.9465429	1.256898
PovStat	-.0188525	.5927786	-0.03	0.975	-1.180682	1.142977
ICV_volM2	1.02e-06	2.48e-06	0.41	0.680	-3.84e-06	5.89e-06
_cons	-6.343743	3.823401	-1.66	0.097	-13.83803	1.150542

```
365 . mi estimate: reg w1Glucose LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       1.36
Within VCE type:          OLS                   Prob > F          =     0.2333
```

w1Glucose	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.5769542	3.052982	0.19	0.850	-5.449674	6.603582
Sex	5.466083	5.673618	0.96	0.337	-5.733718	16.66588
w1Age	.2832289	.2781247	1.02	0.310	-.2657931	.832251
Race	-5.347687	4.773612	-1.12	0.264	-14.77086	4.07549
PovStat	2.791655	4.768064	0.59	0.559	-6.620568	12.20388
ICV_volM2	.0000128	.000021	0.61	0.542	-.0000286	.0000542
_cons	64.04756	31.65001	2.02	0.045	1.570004	126.5251

```
366 . mi estimate: reg w1Creatinine LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.3067
                                                Largest FMI       =     0.3441
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =      30.63
                                                        avg       =      69.44
                                                        max       =     152.77
Model F test:       Equal FMI                   F(   6,  105.9)   =       6.70
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
w1Creatinine | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
LnNFLw1tert |   .0150618   .0255663     0.59   0.558    -.0360643    .0661879
         Sex |   .2466516   .0514515     4.79   0.000     .1416647    .3516385
       w1Age |   .0010402   .0025193     0.41   0.683    -.0040987     .006179
        Race |   .0301498   .0377808     0.80   0.427    -.0446913    .1049909
     PovStat |  -.0020944    .036657    -0.06   0.955    -.0745145    .0703257
   ICV_volM2 |  -1.56e-07   1.87e-07    -0.84   0.407    -5.35e-07    2.22e-07
       _cons |   .6244039   .2649317     2.36   0.022     .0946554    1.154152
------------------------------------------------------------------------------

367 . mi estimate: reg w1USpecGrav LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0118
                                                Largest FMI       =     0.0304
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     159.29
                                                        avg       =     166.67
                                                        max       =     169.51
Model F test:       Equal FMI                   F(   6,  169.7)   =       1.49
Within VCE type:          OLS                   Prob > F          =     0.1858

------------------------------------------------------------------------------
w1USpecGrav | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
LnNFLw1tert |  -.0001594   .0006899    -0.23   0.818    -.0015215    .0012027
         Sex |    .001906   .0012764     1.49   0.137    -.0006136    .0044256
       w1Age |  -.0000342   .0000627    -0.55   0.586     -.000158    .0000896
        Race |   .0003169   .0010759     0.29   0.769    -.0018071    .0024408
     PovStat |   .0015077   .0010873     1.39   0.168    -.0006398    .0036551
   ICV_volM2 |   2.40e-09   4.73e-09     0.51   0.613    -6.93e-09    1.17e-08
       _cons |   1.012849    .007176   141.14   0.000     .9986796    1.027017
------------------------------------------------------------------------------

368 . mi estimate: reg w1BUN LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       6.52
Within VCE type:          OLS                   Prob > F          =     0.0000
```

w1BUN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.0292844	.4213025	0.07	0.945	-.8023726	.8609413
Sex	1.6204	.7829427	2.07	0.040	.0748606	3.16594
w1Age	.1189786	.0383804	3.10	0.002	.0432151	.194742
Race	-2.678866	.6587445	-4.07	0.000	-3.979237	-1.378495
PovStat	.1367022	.6579788	0.21	0.836	-1.162157	1.435561
ICV_volM2	-3.96e-06	2.90e-06	-1.37	0.173	-9.68e-06	1.75e-06
_cons	14.58118	4.367608	3.34	0.001	5.959464	23.2029

369 . mi estimate: reg w1ALP LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 172
DF adjustment: Small sample — DF: min = 170.03
avg = 170.03
max = 170.03
Model F test: Equal FMI — F(6, 170.0) = 2.37
Within VCE type: OLS — Prob > F = 0.0316

w1ALP	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	2.593773	2.243842	1.16	0.249	-1.835603	7.023149
Sex	-8.088366	4.169925	-1.94	0.054	-16.31986	.143125
w1Age	.3845807	.2044127	1.88	0.062	-.0189328	.7880941
Race	.6084525	3.50845	0.17	0.863	-6.317277	7.534182
PovStat	.4396118	3.504372	0.13	0.900	-6.478067	7.357291
ICV_volM2	9.41e-06	.0000154	0.61	0.543	-.000021	.0000399
_cons	49.33129	23.26173	2.12	0.035	3.412319	95.25027

370 . mi estimate: reg w1UricAcid LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 172
DF adjustment: Small sample — DF: min = 170.03
avg = 170.03
max = 170.03
Model F test: Equal FMI — F(6, 170.0) = 9.97
Within VCE type: OLS — Prob > F = 0.0000

w1UricAcid	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.3543404	.1408738	-2.52	0.013	-.6324271	-.0762536
Sex	1.587056	.2617978	6.06	0.000	1.070263	2.103848
w1Age	.0527217	.0128335	4.11	0.000	.0273882	.0780553
Race	-.091558	.2202688	-0.42	0.678	-.5263718	.3432557
PovStat	.0402414	.2200128	0.18	0.855	-.3940669	.4745497
ICV_volM2	-2.47e-06	9.68e-07	-2.55	0.012	-4.38e-06	-5.54e-07
_cons	4.767024	1.460427	3.26	0.001	1.884122	7.649927

```
371 . mi estimate: reg w1Albumin LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       2.47
Within VCE type:          OLS                   Prob > F          =     0.0258

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   -.018225   .0286995    -0.64   0.526    -.0748782    .0384282
         Sex |   .1463224   .0533347     2.74   0.007     .0410388    .2516059
       w1Age |   -.002569   .0026145    -0.98   0.327    -.0077301    .0025921
        Race |  -.0609915   .0448742    -1.36   0.176    -.1495738    .0275909
     PovStat |  -.0211066   .0448221    -0.47   0.638     -.109586    .0673728
    ICV_volM2 |  -7.95e-08   1.97e-07    -0.40   0.688    -4.69e-07    3.10e-07
        _cons |   4.509539   .2975253    15.16   0.000     3.922221    5.096858
------------------------------------------------------------------------------

372 . mi estimate: reg w1EosinPct LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0033
                                                Largest FMI       =     0.0093
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     167.92
                                                        avg       =     169.33
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       1.31
Within VCE type:          OLS                   Prob > F          =     0.2544

------------------------------------------------------------------------------
  w1EosinPct | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw1tert |   .0305046   .2143341     0.14   0.887    -.3925938    .4536031
         Sex |   .5925639   .3984962     1.49   0.139    -.1940784    1.379206
       w1Age |  -.0103563   .0195387    -0.53   0.597    -.0489263    .0282138
        Race |  -.7445934   .3360858    -2.22   0.028    -1.408065   -.0811217
     PovStat |   .1029234   .3354651     0.31   0.759    -.5593136    .7651604
    ICV_volM2 |  -5.50e-07   1.47e-06    -0.37   0.710    -3.46e-06    2.36e-06
        _cons |   3.978836   2.232106     1.78   0.076    -.4277703    8.385443
------------------------------------------------------------------------------

373 . mi estimate: reg w1TotalD LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.2586
                                                Largest FMI       =     0.4329
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =      21.11
                                                        avg       =      78.59
                                                        max       =     126.57
Model F test:       Equal FMI                   F(   6,  112.2)   =      11.41
Within VCE type:          OLS                   Prob > F          =     0.0000
```

w1TotalD	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	3.07864	1.249707	2.46	0.022	.4805269	5.676754
Sex	-.3656054	2.008069	-0.18	0.856	-4.376537	3.645326
w1Age	-.0428535	.1066544	-0.40	0.691	-.2601571	.1744502
Race	-9.819679	1.641715	-5.98	0.000	-13.08188	-6.557478
PovStat	-2.486761	1.614302	-1.54	0.126	-5.687165	.7136435
ICV_volM2	6.39e-06	7.00e-06	0.91	0.363	-7.45e-06	.0000202
_cons	27.35999	10.67406	2.56	0.012	6.208918	48.51106

374 . mi estimate: reg w1currdrugs LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.1063
Largest FMI = 0.2327
Complete DF = 172
DF adjustment: Small sample — DF: min = 53.03
avg = 117.49
max = 168.64
Model F test: Equal FMI — F(6, 153.2) = 1.91
Within VCE type: OLS — Prob > F = 0.0828

w1currdrugs	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.0948027	.0479166	1.98	0.052	-.001024	.1906294
Sex	-.0262623	.0831258	-0.32	0.753	-.1907113	.1381866
w1Age	-.0079348	.0044242	-1.79	0.079	-.0168085	.0009389
Race	.1301063	.0692916	1.88	0.062	-.0068613	.2670739
PovStat	-.0658657	.0704567	-0.93	0.352	-.2053775	.073646
ICV_volM2	-1.32e-07	2.97e-07	-0.45	0.657	-7.19e-07	4.54e-07
_cons	.5086907	.4578158	1.11	0.268	-.3960291	1.413411

375 . mi estimate: mlogit w1SRH LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1, baseoutcome(1)

Multiple-imputation estimates — Imputations = 5
Multinomial logistic regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
DF adjustment: Large sample — DF: min = 1.62e+63
avg = 4.22e+63
max = .
Model F test: Equal FMI — F(12, 6.6e+65) = 0.78
Within VCE type: OIM — Prob > F = 0.6675

w1SRH	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
1	(base outcome)					
2						
LnNFLw1tert	-.284267	.3065843	-0.93	0.354	-.8851613	.3166272
Sex	.1696241	.5623448	0.30	0.763	-.9325514	1.2718
w1Age	.0253878	.027574	0.92	0.357	-.0286562	.0794318
Race	-.209899	.4653396	-0.45	0.652	-1.121948	.7021499
PovStat	-.2368328	.4473071	-0.53	0.596	-1.113539	.6398731
ICV_volM2	9.79e-07	2.13e-06	0.46	0.645	-3.19e-06	5.15e-06
_cons	-1.004775	3.172801	-0.32	0.751	-7.22335	5.2138
3						
LnNFLw1tert	-.4677958	.3049187	-1.53	0.125	-1.065425	.1298339

Sex	.0977025	.556429	0.18	0.861	-.9928783	1.188283
w1Age	.0305047	.0273061	1.12	0.264	-.0230143	.0840236
Race	.1386296	.4620895	0.30	0.764	-.7670493	1.044308
PovStat	-.7240586	.4565792	-1.59	0.113	-1.618937	.1708201
ICV_volM2	2.50e-06	2.12e-06	1.18	0.237	-1.65e-06	6.65e-06
_cons	-2.577278	3.141713	-0.82	0.412	-8.734922	3.580366

```
376 .
377 .
378 .
379 .
380 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

381 .
382 . reg LnNFLw1 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 409.13
Model	34.6088613	1	34.6088613	Prob > F	= 0.0000
Residual	14.9726419	177	.084591197	R-squared	= 0.6980
				Adj R-squared	= 0.6963
Total	49.5815032	178	.278547771	Root MSE	= .29085

LnNFLw1	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.5392999	.0266624	20.23	0.000	.4866828	.591917
_cons	.9358191	.0574478	16.29	0.000	.8224483	1.04919

```
383 .
384 . reg LnNFLw3 LnNFLw1tert if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 80.40
Model	18.6058081	1	18.6058081	Prob > F	= 0.0000
Residual	40.9581675	177	.231402076	R-squared	= 0.3124
				Adj R-squared	= 0.3085
Total	59.5639756	178	.334629076	Root MSE	= .48104

LnNFLw3	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.3954221	.0440981	8.97	0.000	.3083963	.4824479
_cons	1.428005	.0950155	15.03	0.000	1.240496	1.615514

```
385 .
386 . reg bayes1LnNFL LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 8.48
Model	.045001439	1	.045001439	Prob > F	= 0.0040
Residual	.938845634	177	.005304213	R-squared	= 0.0457
				Adj R-squared	= 0.0403
Total	.983847073	178	.005527231	Root MSE	= .07283

bayes1LnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0194469	.0066765	-2.91	0.004	-.0326226	-.0062711
_cons	.0767119	.0143854	5.33	0.000	.048323	.1051009

```
387 .
388 . reg deltaLnNFL LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	14.19
Model	.169478059	1	.169478059	Prob > F	=	0.0002
Residual	2.11395215	177	.011943232	R-squared	=	0.0742
				Adj R-squared	=	0.0690
Total	2.28343021	178	.01282826	Root MSE	=	.10929

deltaLnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0377393	.0100184	-3.77	0.000	-.0575101	-.0179684
_cons	.1196563	.021586	5.54	0.000	.0770573	.1622553

```
389 .
390 . save, replace
file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved
391 .
392 . reg ICV_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.49
Model	9.9006e+09	1	9.9006e+09	Prob > F	=	0.4853
Residual	3.5840e+12	177	2.0249e+10	R-squared	=	0.0028
				Adj R-squared	=	-0.0029
Total	3.5939e+12	178	2.0190e+10	Root MSE	=	1.4e+05

ICV_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	9121.506	13044.68	0.70	0.485	-16621.6	34864.62
_cons	1321121	28106.53	47.00	0.000	1265654	1376588

```
393 .
394 .
395 . reg TOTALBRAIN LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.23
Model	3.2414e+09	1	3.2414e+09	Prob > F	=	0.6311
Residual	2.4797e+12	177	1.4009e+10	R-squared	=	0.0013
				Adj R-squared	=	-0.0043
Total	2.4829e+12	178	1.3949e+10	Root MSE	=	1.2e+05

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-5219.163	10850.45	-0.48	0.631	-26632.06	16193.73
_cons	1153297	23378.77	49.33	0.000	1107160	1199434

```
396 . reg GM LnNFLw1tert if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	2.31
Model	9.7639e+09	1	9.7639e+09	Prob > F	=	0.1302
Residual	7.4748e+11	177	4.2231e+09	R-squared	=	0.0129
				Adj R-squared	=	0.0073
Total	7.5724e+11	178	4.2542e+09	Root MSE	=	64985

GM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-9058.344	5957.305	-1.52	0.130	-20814.83	2698.143
_cons	660478.2	12835.83	51.46	0.000	635147.3	685809.2

```
397 . reg WM LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.00
Model	68924.5385	1	68924.5385	Prob > F	=	0.9961
Residual	4.9764e+11	177	2.8115e+09	R-squared	=	0.0000
				Adj R-squared	=	-0.0056
Total	4.9764e+11	178	2.7958e+09	Root MSE	=	53024

WM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	24.06709	4860.82	0.00	0.996	-9568.553	9616.687
_cons	457219	10473.3	43.66	0.000	436550.4	477887.6

```
398 .
399 .
400 . reg FRONTAL_GM_L_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	4.99
Model	498651878	1	498651878	Prob > F	=	0.0267
Residual	1.7676e+10	177	99863669.3	R-squared	=	0.0274
				Adj R-squared	=	0.0219
Total	1.8175e+10	178	102104052	Root MSE	=	9993.2

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-2047.083	916.0949	-2.23	0.027	-3854.957	-239.2088
_cons	97297.04	1973.851	49.29	0.000	93401.73	101192.4

```
401 . reg FRONTAL_WM_L_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.05
Model	5031991.1	1	5031991.1	Prob > F	=	0.8288
Residual	1.9002e+10	177	107354173	R-squared	=	0.0003
				Adj R-squared	=	-0.0054
Total	1.9007e+10	178	106779329	Root MSE	=	10361

F~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-205.6396	949.8306	-0.22	0.829	-2080.09	1668.811
_cons	85735.96	2046.54	41.89	0.000	81697.2	89774.72

402 . reg TEMPORAL_GM_L_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.65
Model	24377969.6	1	24377969.6	Prob > F	= 0.4229
Residual	6.6870e+09	177	37779825.8	R-squared	= 0.0036
				Adj R-squared	= -0.0020
Total	6.7114e+09	178	37704534.4	Root MSE	= 6146.5

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-452.6218	563.4647	-0.80	0.423	-1564.595	659.3516
_cons	51192.1	1214.061	42.17	0.000	48796.2	53587.99

403 . reg TEMPORAL_WM_L_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.05
Model	1859818.39	1	1859818.39	Prob > F	= 0.8243
Residual	6.6557e+09	177	37602748.7	R-squared	= 0.0003
				Adj R-squared	= -0.0054
Total	6.6575e+09	178	37401945.8	Root MSE	= 6132.1

T~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	125.0178	562.1426	0.22	0.824	-984.3466	1234.382
_cons	49117.14	1211.213	40.55	0.000	46726.86	51507.41

404 . reg PARIETAL_GM_L_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 1.43
Model	46055581.9	1	46055581.9	Prob > F	= 0.2327
Residual	5.6843e+09	177	32114507.5	R-squared	= 0.0080
				Adj R-squared	= 0.0024
Total	5.7303e+09	178	32192828.1	Root MSE	= 5667

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-622.1253	519.5021	-1.20	0.233	-1647.341	403.09
_cons	47389.82	1119.338	42.34	0.000	45180.85	49598.79

```
405 . reg PARIETAL_WM_L_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.16
Model	5171942.77	1	5171942.77	Prob > F	=	0.6864
Residual	5.5973e+09	177	31623025.7	R-squared	=	0.0009
				Adj R-squared	=	-0.0047
Total	5.6024e+09	178	31474424.1	Root MSE	=	5623.4

P~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	208.4796	515.5116	0.40	0.686	-808.8604	1225.82
_cons	43481.41	1110.74	39.15	0.000	41289.41	45673.4

```
406 . reg OCCIPITAL_GM_L_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	1.20
Model	32655000.7	1	32655000.7	Prob > F	=	0.2750
Residual	4.8202e+09	177	27232769.9	R-squared	=	0.0067
				Adj R-squared	=	0.0011
Total	4.8529e+09	178	27263231.9	Root MSE	=	5218.5

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-523.8556	478.3906	-1.10	0.275	-1467.939	420.2278
_cons	39119.84	1030.758	37.95	0.000	37085.68	41154

```
407 . reg OCCIPITAL_WM_L_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.01
Model	115812.64	1	115812.64	Prob > F	=	0.9088
Residual	1.5567e+09	177	8794691.86	R-squared	=	0.0001
				Adj R-squared	=	-0.0056
Total	1.5568e+09	178	8745934.11	Root MSE	=	2965.6

O~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-31.19713	271.8611	-0.11	0.909	-567.7033	505.3091
_cons	21090.19	585.7618	36.00	0.000	19934.21	22246.17

```
408 .
409 .
410 . reg FRONTAL_GM_R_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	4.86
Model	506392894	1	506392894	Prob > F	=	0.0288
Residual	1.8437e+10	177	104162506	R-squared	=	0.0267
				Adj R-squared	=	0.0212
Total	1.8943e+10	178	106422227	Root MSE	=	10206

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-2062.911	935.6048	-2.20	0.029	-3909.287	-216.5352
_cons	97414.34	2015.888	48.32	0.000	93436.07	101392.6

411 . reg FRONTAL_WM_R_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.02
Model	2384938.49	1	2384938.49	Prob > F	= 0.8856
Residual	2.0326e+10	177	114835946	R-squared	= 0.0001
				Adj R-squared	= -0.0055
Total	2.0328e+10	178	114204199	Root MSE	= 10716

F~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-141.5713	982.3712	-0.14	0.886	-2080.239	1797.096
_cons	87834.31	2116.653	41.50	0.000	83657.19	92011.44

412 . reg TEMPORAL_GM_R_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 1.77
Model	63460061.9	1	63460061.9	Prob > F	= 0.1855
Residual	6.3576e+09	177	35918837.3	R-squared	= 0.0099
				Adj R-squared	= 0.0043
Total	6.4211e+09	178	36073563.3	Root MSE	= 5993.2

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-730.2759	549.4116	-1.33	0.185	-1814.516	353.9645
_cons	52677.38	1183.782	44.50	0.000	50341.24	55013.52

413 . reg TEMPORAL_WM_R_volM2 LnNFLw1tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.01
Model	340772.971	1	340772.971	Prob > F	= 0.9235
Residual	6.5238e+09	177	36857810.5	R-squared	= 0.0001
				Adj R-squared	= -0.0056
Total	6.5242e+09	178	36652658.6	Root MSE	= 6071.1

T~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-53.51423	556.5465	-0.10	0.924	-1151.835	1044.807
_cons	50019.68	1199.155	41.71	0.000	47653.2	52386.16

```
414 . reg PARIETAL_GM_R_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	2.67
Model	87577663.2	1	87577663.2	Prob > F	=	0.1039
Residual	5.8019e+09	177	32778975	R-squared	=	0.0149
				Adj R-squared	=	0.0093
Total	5.8895e+09	178	33086832.8	Root MSE	=	5725.3

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-857.8935	524.849	-1.63	0.104	-1893.661	177.8736
_cons	48483.74	1130.859	42.87	0.000	46252.04	50715.45

```
415 . reg PARIETAL_WM_R_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.18
Model	5486599.7	1	5486599.7	Prob > F	=	0.6687
Residual	5.2857e+09	177	29862652.9	R-squared	=	0.0010
				Adj R-squared	=	-0.0046
Total	5.2912e+09	178	29725708.8	Root MSE	=	5464.7

P~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	214.7278	500.9575	0.43	0.669	-773.8904	1203.346
_cons	41255.67	1079.381	38.22	0.000	39125.56	43385.78

```
416 . reg OCCIPITAL_GM_R_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.04
Model	1162642.54	1	1162642.54	Prob > F	=	0.8424
Residual	5.1933e+09	177	29340677.8	R-squared	=	0.0002
				Adj R-squared	=	-0.0054
Total	5.1945e+09	178	29182374.2	Root MSE	=	5416.7

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	98.84616	496.5601	0.20	0.842	-881.0939	1078.786
_cons	39138.3	1069.906	36.58	0.000	37026.88	41249.71

```
417 . reg OCCIPITAL_WM_R_volM2 LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	1.06
Model	9112939.07	1	9112939.07	Prob > F	=	0.3044
Residual	1.5200e+09	177	8587549.4	R-squared	=	0.0060
				Adj R-squared	=	0.0003
Total	1.5291e+09	178	8590501.03	Root MSE	=	2930.5

O~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	276.7362	268.6404	1.03	0.304	-253.4142	806.8865
_cons	20263.97	578.8224	35.01	0.000	19121.69	21406.25

```
418 .
419 .
420 . reg Left_Hippocampus LnNFLw1tert   if sample_final==1
```

Source	SS	df	MS		
Model	105923.444	1	105923.444	Number of obs	= 179
Residual	26364160.4	177	148950.059	F(1, 177)	= 0.71
				Prob > F	= 0.4002
Total	26470083.9	178	148708.336	R-squared	= 0.0040
				Adj R-squared	= -0.0016
				Root MSE	= 385.94

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-29.83546	35.37994	-0.84	0.400	-99.65625	39.98533
_cons	3596.427	76.2309	47.18	0.000	3445.989	3746.866

```
421 . reg Right_Hippocampus LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
Model	80501.3738	1	80501.3738	Number of obs	= 179
Residual	30330725.9	177	171360.033	F(1, 177)	= 0.47
				Prob > F	= 0.4940
Total	30411227.3	178	170849.592	R-squared	= 0.0026
				Adj R-squared	= -0.0030
				Root MSE	= 413.96

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-26.00988	37.94823	-0.69	0.494	-100.8991	48.87932
_cons	3879.62	81.76463	47.45	0.000	3718.261	4040.979

```
422 .
423 . reg Left_Hippocampuspct LnNFLw1tert   if sample_final==1
```

Source	SS	df	MS		
Model	.001672112	1	.001672112	Number of obs	= 179
Residual	.102109472	177	.00057689	F(1, 177)	= 2.90
				Prob > F	= 0.0904
Total	.103781585	178	.000583043	R-squared	= 0.0161
				Adj R-squared	= 0.0106
				Root MSE	= .02402

Left_Hippo~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0037486	.0022018	-1.70	0.090	-.0080938	.0005966
_cons	.2726198	.0047441	57.46	0.000	.2632574	.2819821

```
424 . reg Right_Hippocampuspct LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
Model	.001536542	1	.001536542	Number of obs	= 179
Residual	.106827795	177	.000603547	F(1, 177)	= 2.55
				Prob > F	= 0.1124
Total	.108364337	178	.000608788	R-squared	= 0.0142
				Adj R-squared	= 0.0086
				Root MSE	= .02457

Right_Hipp~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0035934	.0022521	-1.60	0.112	-.0080379	.000851
_cons	.2940123	.0048525	60.59	0.000	.284436	.3035885

```
425 .
426 .
427 . reg LnLesion_Volume LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 10.11
Model	141.827725	1	141.827725	Prob > F	= 0.0017
Residual	2483.28361	177	14.0298509	R-squared	= 0.0540
				Adj R-squared	= 0.0487
Total	2625.11134	178	14.7478165	Root MSE	= 3.7456

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	1.091735	.3433707	3.18	0.002	.4141077	1.769363
_cons	3.470879	.739839	4.69	0.000	2.010838	4.930919

```
428 . reg LnLesion_Volumepct LnNFLw1tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 10.03
Model	140.23531	1	140.23531	Prob > F	= 0.0018
Residual	2474.47036	177	13.9800585	R-squared	= 0.0536
				Adj R-squared	= 0.0483
Total	2614.70567	178	14.6893577	Root MSE	= 3.739

LnLesion_V~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	1.085589	.3427608	3.17	0.002	.4091651	1.762013
_cons	-6.013864	.738525	-8.14	0.000	-7.471311	-4.556416

```
429 .
430 .
431 . tab NFLw1w3trackhigh LnNFLw1tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

NFLw1w3tra ckhigh	3 quantiles of LnNFLw1 1	2	3	Total
0	60	49	5	114
	52.63	42.98	4.39	100.00
	100.00	81.67	8.47	63.69
1	0	11	54	65
	0.00	16.92	83.08	100.00
	0.00	18.33	91.53	36.31
Total	60	60	59	179

33.52	**33.52**	**32.96**	**100.00**
100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **120.3680** Pr = **0.000**

```
432 . tab NFLw1w3tracklow LnNFLw1tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

NFLw1w3tracklow	3 quantiles of LnNFLw1			Total
	1	2	3	
0	**12**	**43**	**59**	**114**
	10.53	**37.72**	**51.75**	**100.00**
	20.00	**71.67**	**100.00**	**63.69**
1	**48**	**17**	**0**	**65**
	73.85	**26.15**	**0.00**	**100.00**
	80.00	**28.33**	**0.00**	**36.31**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **84.8084** Pr = **0.000**

```
433 .
434 . ****
435 .
436 . reg LnNFLw1 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= **179**
				F(5, 173)	= **99.54**
Model	**36.7927349**	**5**	**7.35854698**	Prob > F	= **0.0000**
Residual	**12.7887683**	**173**	**.073923516**	R-squared	= **0.7421**
				Adj R-squared	= **0.7346**
Total	**49.5815032**	**178**	**.278547771**	Root MSE	= **.27189**

LnNFLw1	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	**.4728271**	**.0297163**	**15.91**	**0.000**	**.4141738**	**.5314804**
w1Age	**.0101334**	**.0027059**	**3.74**	**0.000**	**.0047927**	**.0154742**
Sex	**.0501132**	**.0412256**	**1.22**	**0.226**	**-.0312567**	**.131483**
Race	**-.1440367**	**.0421543**	**-3.42**	**0.001**	**-.2272396**	**-.0608338**
PovStat	**.0532844**	**.0463305**	**1.15**	**0.252**	**-.0381613**	**.1447302**
_cons	**.6456152**	**.1689691**	**3.82**	**0.000**	**.3121089**	**.9791216**

```
437 .
438 . reg LnNFLw3 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	20.76
Model	22.3348974	5	4.46697948	Prob > F	=	0.0000
Residual	37.2290782	173	.215196984	R-squared	=	0.3750
				Adj R-squared	=	0.3569
Total	59.5639756	178	.334629076	Root MSE	=	.46389

LnNFLw3	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	.3146972	.0507017	6.21	0.000	.2146237	.4147706
w1Age	.0138871	.0046167	3.01	0.003	.0047748	.0229994
Sex	.1290718	.0703385	1.84	0.068	-.0097604	.267904
Race	-.1356099	.0719231	-1.89	0.061	-.2775696	.0063497
PovStat	.1272068	.0790485	1.61	0.109	-.0288168	.2832304
_cons	.7637719	.288293	2.65	0.009	.1947476	1.332796

```
439 .
440 . reg bayes1LnNFL LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	2.13
Model	.057071811	5	.011414362	Prob > F	=	0.0640
Residual	.926775262	173	.005357082	R-squared	=	0.0580
				Adj R-squared	=	0.0308
Total	.983847073	178	.005527231	Root MSE	=	.07319

bayes1LnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0223111	.0079996	-2.79	0.006	-.0381004	-.0065217
w1Age	.0005863	.0007284	0.80	0.422	-.0008515	.002024
Sex	.0134393	.0110979	1.21	0.228	-.0084653	.035344
Race	-.0003098	.0113479	-0.03	0.978	-.0227079	.0220883
PovStat	.0079407	.0124721	0.64	0.525	-.0166764	.0325577
_cons	.0249967	.0454862	0.55	0.583	-.0647828	.1147761

```
441 .
442 . reg deltaLnNFL LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	3.01
Model	.182989395	5	.036597879	Prob > F	=	0.0123
Residual	2.10044082	173	.012141276	R-squared	=	0.0801
				Adj R-squared	=	0.0536
Total	2.28343021	178	.01282826	Root MSE	=	.11019

deltaLnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0425111	.012043	-3.53	0.001	-.0662813	-.0187409
w1Age	.000773	.0010966	0.70	0.482	-.0013915	.0029374
Sex	.0097522	.0167073	0.58	0.560	-.0232243	.0427286
Race	-.0080805	.0170837	-0.47	0.637	-.0417998	.0256388
PovStat	.0058569	.0187762	0.31	0.755	-.031203	.0429168
_cons	.081883	.0684775	1.20	0.233	-.053276	.217042

```
443 .
444 . save, replace
    file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

445 .
446 . reg ICV_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	35.61
Model	1.8228e+12	5	3.6457e+11	Prob > F	=	0.0000
Residual	1.7711e+12	173	1.0237e+10	R-squared	=	0.5072
				Adj R-squared	=	0.4930
Total	3.5939e+12	178	2.0190e+10	Root MSE	=	1.0e+05

ICV_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-2788.115	11058.53	-0.25	0.801	-24615.13	19038.9
w1Age	-479.9633	1006.949	-0.48	0.634	-2467.451	1507.525
Sex	179929.8	15341.53	11.73	0.000	149649.1	210210.4
Race	-95757.51	15687.13	-6.10	0.000	-126720.3	-64794.7
PovStat	-14001.3	17241.26	-0.81	0.418	-48031.6	20029
_cons	1261174	62879.54	20.06	0.000	1137064	1385283

```
447 .
448 . reg TOTALBRAIN LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	27.39
Model	1.0971e+12	5	2.1941e+11	Prob > F	=	0.0000
Residual	1.3858e+12	173	8.0107e+09	R-squared	=	0.4418
				Adj R-squared	=	0.4257
Total	2.4829e+12	178	1.3949e+10	Root MSE	=	89502

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-4194.982	9782.244	-0.43	0.669	-23502.9	15112.93
w1Age	-2163.131	890.7354	-2.43	0.016	-3921.239	-405.0231
Sex	137155.7	13570.93	10.11	0.000	110369.8	163941.6
Race	-75715.66	13876.65	-5.46	0.000	-103105	-48326.33
PovStat	-13692.42	15251.41	-0.90	0.371	-43795.21	16410.37
_cons	1181088	55622.49	21.23	0.000	1071302	1290875

```
449 . reg GM LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	31.94
Model	3.6348e+11	5	7.2696e+10	Prob > F	=	0.0000
Residual	3.9377e+11	173	2.2761e+09	R-squared	=	0.4800
				Adj R-squared	=	0.4650
Total	7.5724e+11	178	4.2542e+09	Root MSE	=	47709

GM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-5062.9	5214.348	-0.97	0.333	-15354.83	5229.031
w1Age	-1873.641	474.7995	-3.95	0.000	-2810.787	-936.4957
Sex	70982.08	7233.878	9.81	0.000	56704.05	85260.1
Race	-51755.55	7396.838	-7.00	0.000	-66355.22	-37155.88
PovStat	-7238.84	8129.643	-0.89	0.374	-23284.9	8807.216
_cons	721930	29649.13	24.35	0.000	663409.4	780450.6

```
450 . reg WM LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 17.48
Model	1.6702e+11	5	3.3404e+10	Prob > F	= 0.0000
Residual	3.3062e+11	173	1.9111e+09	R-squared	= 0.3356
				Adj R-squared	= 0.3164
Total	4.9764e+11	178	2.7958e+09	Root MSE	= 43716

WM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-522.911	4778.028	-0.11	0.913	-9953.646	8907.824
w1Age	-695.7419	435.0698	-1.60	0.112	-1554.47	162.9864
Sex	56161.32	6628.57	8.47	0.000	43078.04	69244.6
Race	-21175.4	6777.894	-3.12	0.002	-34553.41	-7797.383
PovStat	-10346.56	7449.38	-1.39	0.167	-25049.93	4356.814
_cons	453784.9	27168.18	16.70	0.000	400161.1	507408.7

```
451 .
452 .
453 . reg FRONTAL_GM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 19.77
Model	6.6079e+09	5	1.3216e+09	Prob > F	= 0.0000
Residual	1.1567e+10	173	66858917.8	R-squared	= 0.3636
				Adj R-squared	= 0.3452
Total	1.8175e+10	178	102104052	Root MSE	= 8176.7

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-1165.998	893.6834	-1.30	0.194	-2929.925	597.9285
w1Age	-298.4008	81.37555	-3.67	0.000	-459.0175	-137.7841
Sex	9400.196	1239.809	7.58	0.000	6953.096	11847.3
Race	-6241.691	1267.739	-4.92	0.000	-8743.917	-3739.464
PovStat	-937.596	1393.334	-0.67	0.502	-3687.718	1812.526
_cons	106240.8	5081.543	20.91	0.000	96210.96	116270.6

454 . reg FRONTAL_WM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 13.91
Model	5.4509e+09	5	1.0902e+09	Prob > F	= 0.0000
Residual	1.3556e+10	173	78357502.2	R-squared	= 0.2868
				Adj R-squared	= 0.2662
Total	1.9007e+10	178	106779329	Root MSE	= 8852

F~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-218.7203	967.4852	-0.23	0.821	-2128.315	1690.874
w1Age	-134.2165	88.09567	-1.52	0.129	-308.0972	39.66416
Sex	10305.31	1342.195	7.68	0.000	7656.123	12954.49
Race	-3072.258	1372.431	-2.24	0.026	-5781.122	-363.3936
PovStat	-2029.874	1508.397	-1.35	0.180	-5007.105	947.3576
_cons	84267.46	5501.185	15.32	0.000	73409.38	95125.54

455 . reg TEMPORAL_GM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 35.23
Model	3.3861e+09	5	677218375	Prob > F	= 0.0000
Residual	3.3253e+09	173	19221475.5	R-squared	= 0.5045
				Adj R-squared	= 0.4902
Total	6.7114e+09	178	37704534.4	Root MSE	= 4384.2

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-521.1666	479.1786	-1.09	0.278	-1466.956	424.6223
w1Age	-109.8793	43.63225	-2.52	0.013	-195.9994	-23.75924
Sex	6988.566	664.7656	10.51	0.000	5676.471	8300.661
Race	-5287.983	679.741	-7.78	0.000	-6629.636	-3946.33
PovStat	-724.2083	747.0829	-0.97	0.334	-2198.779	750.3626
_cons	54888.72	2724.641	20.15	0.000	49510.9	60266.54

456 . reg TEMPORAL_WM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 17.89
Model	2.2694e+09	5	453889619	Prob > F	= 0.0000
Residual	4.3881e+09	173	25364729.8	R-squared	= 0.3409
				Adj R-squared	= 0.3218
Total	6.6575e+09	178	37401945.8	Root MSE	= 5036.3

T~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-154.7262	550.4516	-0.28	0.779	-1241.192	931.7394
w1Age	-44.21951	50.12211	-0.88	0.379	-143.1491	54.71008
Sex	6471.419	763.6429	8.47	0.000	4964.163	7978.676
Race	-2963.451	780.8457	-3.80	0.000	-4504.662	-1422.24
PovStat	-889.7075	858.2041	-1.04	0.301	-2583.606	804.1911
_cons	47779.6	3129.904	15.27	0.000	41601.88	53957.31

457 . reg PARIETAL_GM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 18.95
Model	2.0281e+09	5	405617282	Prob > F	= 0.0000
Residual	3.7022e+09	173	21400213.8	R-squared	= 0.3539
				Adj R-squared	= 0.3352
Total	5.7303e+09	178	32192828.1	Root MSE	= 4626

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-229.7324	505.607	-0.45	0.650	-1227.685	768.2202
w1Age	-162.7754	46.03873	-3.54	0.001	-253.6453	-71.90544
Sex	4523.416	701.4299	6.45	0.000	3138.954	5907.878
Race	-4728.26	717.2312	-6.59	0.000	-6143.911	-3312.61
PovStat	-504.736	788.2873	-0.64	0.523	-2060.635	1051.163
_cons	55180.71	2874.915	19.19	0.000	49506.28	60855.13

458 . reg PARIETAL_WM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 15.85
Model	1.7603e+09	5	352066680	Prob > F	= 0.0000
Residual	3.8421e+09	173	22208752	R-squared	= 0.3142
				Adj R-squared	= 0.2944
Total	5.6024e+09	178	31474424.1	Root MSE	= 4712.6

P~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-80.81825	515.0698	-0.16	0.876	-1097.448	935.8118
w1Age	-33.79143	46.90038	-0.72	0.472	-126.362	58.77919
Sex	5654.389	714.5576	7.91	0.000	4244.016	7064.763
Race	-2654.852	730.6547	-3.63	0.000	-4096.997	-1212.707
PovStat	-858.4815	803.0407	-1.07	0.287	-2443.5	726.5371
_cons	42369.97	2928.721	14.47	0.000	36589.34	48150.59

459 . reg OCCIPITAL_GM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 20.92
Model	1.8288e+09	5	365756886	Prob > F	= 0.0000
Residual	3.0241e+09	173	17480178.3	R-squared	= 0.3768
				Adj R-squared	= 0.3588
Total	4.8529e+09	178	27263231.9	Root MSE	= 4180.9

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-344.4118	456.9587	-0.75	0.452	-1246.344	557.5202
w1Age	-126.5083	41.60899	-3.04	0.003	-208.635	-44.3817
Sex	4417.317	633.94	6.97	0.000	3166.065	5668.57
Race	-4506.709	648.2209	-6.95	0.000	-5786.149	-3227.269
PovStat	-637.8886	712.4402	-0.90	0.372	-2044.083	768.3054
_cons	45618.78	2598.297	17.56	0.000	40490.33	50747.22

```
460 . reg OCCIPITAL_WM_L_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 16.50
Model	502680938	5	100536188	Prob > F	= 0.0000
Residual	1.0541e+09	173	6093036.61	R-squared	= 0.3229
				Adj R-squared	= 0.3033
Total	1.5568e+09	178	8745934.11	Root MSE	= 2468.4

O~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	59.80947	269.7869	0.22	0.825	-472.6883	592.3072
w1Age	-61.56237	24.56581	-2.51	0.013	-110.0497	-13.07507
Sex	2862.021	374.2761	7.65	0.000	2123.285	3600.756
Race	-1603.518	382.7075	-4.19	0.000	-2358.895	-848.1408
PovStat	-486.2145	420.6224	-1.16	0.249	-1316.427	343.9978
_cons	22612.06	1534.026	14.74	0.000	19584.24	25639.87

```
461 .
462 .
463 . reg FRONTAL_GM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 20.68
Model	7.0870e+09	5	1.4174e+09	Prob > F	= 0.0000
Residual	1.1856e+10	173	68532793.9	R-squared	= 0.3741
				Adj R-squared	= 0.3560
Total	1.8943e+10	178	106422227	Root MSE	= 8278.5

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-1303.024	904.8014	-1.44	0.152	-3088.895	482.8472
w1Age	-279.0605	82.38791	-3.39	0.001	-441.6754	-116.4456
Sex	10171.32	1255.233	8.10	0.000	7693.779	12648.87
Race	-6039.91	1283.51	-4.71	0.000	-8573.266	-3506.554
PovStat	-935.7697	1410.668	-0.66	0.508	-3720.105	1848.565
_cons	104272.9	5144.76	20.27	0.000	94118.29	114427.4

```
464 . reg FRONTAL_WM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 13.10
Model	5.5814e+09	5	1.1163e+09	Prob > F	= 0.0000
Residual	1.4747e+10	173	85242451.2	R-squared	= 0.2746
				Adj R-squared	= 0.2536
Total	2.0328e+10	178	114204199	Root MSE	= 9232.7

F~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-163.4916	1009.095	-0.16	0.871	-2155.214	1828.231
w1Age	-129.1838	91.88449	-1.41	0.162	-310.5428	52.17519
Sex	10531.79	1399.92	7.52	0.000	7768.672	13294.91
Race	-2837.81	1431.456	-1.98	0.049	-5663.177	-12.44279
PovStat	-1962.731	1573.271	-1.25	0.214	-5068.007	1142.545
_cons	85395.9	5737.78	14.88	0.000	74070.83	96720.96

```
465 . reg TEMPORAL_GM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	33.12
Model	3.1405e+09	5	628104965	Prob > F	=	0.0000
Residual	3.2806e+09	173	18962829.2	R-squared	=	0.4891
				Adj R-squared	=	0.4743
Total	6.4211e+09	178	36073563.3	Root MSE	=	4354.6

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-853.1334	475.9437	-1.79	0.075	-1792.537	86.2707
w1Age	-86.85897	43.3377	-2.00	0.047	-172.3977	-1.32027
Sex	6815.338	660.2779	10.32	0.000	5512.101	8118.576
Race	-5039.658	675.1522	-7.46	0.000	-6372.254	-3707.062
PovStat	-284.4754	742.0395	-0.38	0.702	-1749.092	1180.141
_cons	54705.41	2706.247	20.21	0.000	49363.9	60046.92

```
466 . reg TEMPORAL_WM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	17.30
Model	2.1751e+09	5	435013563	Prob > F	=	0.0000
Residual	4.3491e+09	173	25139337.7	R-squared	=	0.3334
				Adj R-squared	=	0.3141
Total	6.5242e+09	178	36652658.6	Root MSE	=	5013.9

T~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-313.746	548.0005	-0.57	0.568	-1395.374	767.8816
w1Age	-45.26403	49.89892	-0.91	0.366	-143.7531	53.22503
Sex	6419.203	760.2424	8.44	0.000	4918.658	7919.748
Race	-2590.317	777.3686	-3.33	0.001	-4124.665	-1055.969
PovStat	-1028.456	854.3826	-1.20	0.230	-2714.812	657.8994
_cons	48423.42	3115.967	15.54	0.000	42273.21	54573.63

```
467 . reg PARIETAL_GM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	19.98
Model	2.1557e+09	5	431149442	Prob > F	=	0.0000
Residual	3.7337e+09	173	21582133.1	R-squared	=	0.3660
				Adj R-squared	=	0.3477
Total	5.8895e+09	178	33086832.8	Root MSE	=	4645.7

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-577.7645	507.7515	-1.14	0.257	-1579.95	424.4208
w1Age	-143.4641	46.234	-3.10	0.002	-234.7195	-52.2088
Sex	4937.796	704.4049	7.01	0.000	3547.462	6328.13
Race	-4637.89	720.2733	-6.44	0.000	-6059.545	-3216.235
PovStat	-446.7643	791.6307	-0.56	0.573	-2009.262	1115.734
_cons	54772.96	2887.109	18.97	0.000	49074.46	60471.45

468 . reg PARIETAL_WM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 16.15
Model	1.6838e+09	5	336769429	Prob > F	= 0.0000
Residual	3.6073e+09	173	20851612.8	R-squared	= 0.3182
				Adj R-squared	= 0.2985
Total	5.2912e+09	178	29725708.8	Root MSE	= 4566.4

P~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-59.60321	499.0842	-0.12	0.905	-1044.681	925.475
w1Age	-37.97531	45.44479	-0.84	0.405	-127.6729	51.72231
Sex	5499.028	692.3808	7.94	0.000	4132.427	6865.63
Race	-2537.147	707.9783	-3.58	0.000	-3934.534	-1139.76
PovStat	-1040.316	778.1177	-1.34	0.183	-2576.142	495.5107
_cons	40611.32	2837.826	14.31	0.000	35010.1	46212.54

469 . reg OCCIPITAL_GM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 28.36
Model	2.3400e+09	5	467994841	Prob > F	= 0.0000
Residual	2.8545e+09	173	16499933	R-squared	= 0.4505
				Adj R-squared	= 0.4346
Total	5.1945e+09	178	29182374.2	Root MSE	= 4062

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	155.9834	443.9613	0.35	0.726	-720.2947	1032.261
w1Age	-126.9047	40.4255	-3.14	0.002	-206.6954	-47.11398
Sex	5353.911	615.9086	8.69	0.000	4138.248	6569.573
Race	-4671.935	629.7834	-7.42	0.000	-5914.983	-3428.886
PovStat	-1276.805	692.176	-1.84	0.067	-2643.002	89.39246
_cons	45617.24	2524.393	18.07	0.000	40634.67	50599.82

470 . reg OCCIPITAL_WM_R_volM2 LnNFLw1tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 18.60
Model	534545799	5	106909160	Prob > F	= 0.0000
Residual	994563383	173	5748921.29	R-squared	= 0.3496
				Adj R-squared	= 0.3308
Total	1.5291e+09	178	8590501.03	Root MSE	= 2397.7

O~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	339.3797	262.0579	1.30	0.197	-177.8626	856.6221
w1Age	-61.60278	23.86203	-2.58	0.011	-108.701	-14.50459
Sex	2891.297	363.5535	7.95	0.000	2173.726	3608.869
Race	-1610.558	371.7434	-4.33	0.000	-2344.295	-876.822
PovStat	-692.4545	408.572	-1.69	0.092	-1498.882	113.9732
_cons	22082.69	1490.078	14.82	0.000	19141.62	25023.76

```
. 
. 
. reg Left_Hippocampus LnNFLw1tert w1Age Sex Race PovStat  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	12.91
Model	7191400.6	5	1438280.12	Prob > F	=	0.0000
Residual	19278683.3	173	111437.476	R-squared	=	0.2717
				Adj R-squared	=	0.2506
Total	26470083.9	178	148708.336	Root MSE	=	333.82

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-42.62603	36.48545	-1.17	0.244	-114.64	29.3879
w1Age	-5.921529	3.322231	-1.78	0.076	-12.47885	.6357958
Sex	268.407	50.61635	5.30	0.000	168.5019	368.3121
Race	-243.0243	51.7566	-4.70	0.000	-345.18	-140.8686
PovStat	-157.4455	56.88413	-2.77	0.006	-269.7218	-45.16928
_cons	4066.534	207.4587	19.60	0.000	3657.058	4476.01

```
. reg Right_Hippocampus LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	11.18
Model	7425827.47	5	1485165.49	Prob > F	=	0.0000
Residual	22985399.8	173	132863.583	R-squared	=	0.2442
				Adj R-squared	=	0.2223
Total	30411227.3	178	170849.592	Root MSE	=	364.5

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-50.53345	39.83887	-1.27	0.206	-129.1663	28.09936
w1Age	-3.660605	3.627582	-1.01	0.314	-10.82062	3.499412
Sex	269.9533	55.26856	4.88	0.000	160.8658	379.0408
Race	-277.4517	56.51361	-4.91	0.000	-388.9967	-165.9068
PovStat	-122.7735	62.11242	-1.98	0.050	-245.3692	-.1777804
_cons	4266.066	226.5264	18.83	0.000	3818.954	4713.177

```
. 
. reg Left_Hippocampuspct LnNFLw1tert  w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	5.48
Model	.014181204	5	.002836241	Prob > F	=	0.0001
Residual	.089600381	173	.000517921	R-squared	=	0.1366
				Adj R-squared	=	0.1117
Total	.103781585	178	.000583043	Root MSE	=	.02276

Left_Hippo~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0023478	.0024873	-0.94	0.347	-.0072572	.0025617
w1Age	-.000324	.0002265	-1.43	0.154	-.000771	.000123
Sex	-.0155824	.0034507	-4.52	0.000	-.0223932	-.0087715
Race	.0007447	.0035284	0.21	0.833	-.0062197	.007709
PovStat	-.0079122	.003878	-2.04	0.043	-.0155665	-.000258
_cons	.3171796	.0141432	22.43	0.000	.2892641	.345095

```
477 . reg Right_Hippocampuspct LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	6.18
Model	.016430777	5	.003286155	Prob > F	=	0.0000
Residual	.09193356	173	.000531408	R-squared	=	0.1516
				Adj R-squared	=	0.1271
Total	.108364337	178	.000608788	Root MSE	=	.02305

Right_Hipp~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	-.0028028	.0025195	-1.11	0.268	-.0077757	.0021702
w1Age	-.0001601	.0002294	-0.70	0.486	-.0006129	.0002927
Sex	-.0181958	.0034953	-5.21	0.000	-.0250948	-.0112968
Race	-.0001373	.0035741	-0.04	0.969	-.0071917	.0069171
PovStat	-.0051611	.0039282	-1.31	0.191	-.0129144	.0025922
_cons	.3333792	.0143262	23.27	0.000	.3051027	.3616558

```
478 .
479 .
480 . reg LnLesion_Volume LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	2.88
Model	201.527489	5	40.3054977	Prob > F	=	0.0160
Residual	2423.58385	173	14.0091552	R-squared	=	0.0768
				Adj R-squared	=	0.0501
Total	2625.11134	178	14.7478165	Root MSE	=	3.7429

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	1.057202	.4090817	2.58	0.011	.249768	1.864635
w1Age	.0252872	.0372495	0.68	0.498	-.0482347	.0988092
Sex	.7350628	.56752	1.30	0.197	-.3850919	1.855218
Race	.6756245	.5803047	1.16	0.246	-.4697643	1.821013
PovStat	.6307812	.6377955	0.99	0.324	-.6280812	1.889644
_cons	-.5144125	2.326065	-0.22	0.825	-5.105534	4.076709

```
481 . reg LnLesion_Volumepct LnNFLw1tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	2.83
Model	197.737857	5	39.5475714	Prob > F	=	0.0175
Residual	2416.96781	173	13.9709122	R-squared	=	0.0756
				Adj R-squared	=	0.0489
Total	2614.70567	178	14.6893577	Root MSE	=	3.7378

LnLesion_V~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	1.05962	.4085229	2.59	0.010	.2532891	1.865951
w1Age	.0257107	.0371986	0.69	0.490	-.0477108	.0991323
Sex	.6025358	.5667448	1.06	0.289	-.5160889	1.721161
Race	.746679	.5795121	1.29	0.199	-.3971453	1.890503
PovStat	.642365	.6369243	1.01	0.315	-.614778	1.899508
_cons	-9.960339	2.322888	-4.29	0.000	-14.54519	-5.375489

```
482 .
483 .
484 .
485 . mlogit NFLw1w3trackhigh LnNFLw1tert w1Age Sex Race PovStat  if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -50.846356
Iteration 2:   log likelihood = -43.874883
Iteration 3:   log likelihood = -43.298622
Iteration 4:   log likelihood = -43.294552
Iteration 5:   log likelihood =  -43.29455

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(5)    =  147.97
                                                      Prob > chi2   =  0.0000
Log likelihood = -43.29455                            Pseudo R2     =  0.6308

------------------------------------------------------------------------------
NFLw1w3tra~h | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw1tert |   3.999739   .6235669     6.41   0.000      2.77757    5.221907
       w1Age |   .0291496   .0397374     0.73   0.463    -.0487344    .1070335
         Sex |   .1110033   .5679476     0.20   0.845    -1.002154     1.22416
        Race |  -1.267111   .6382964    -1.99   0.047    -2.518149    -.016073
     PovStat |  -.2031953   .6473265    -0.31   0.754    -1.471932    1.065541
       _cons |  -9.194782   2.672652    -3.44   0.001    -14.43308   -3.956481
------------------------------------------------------------------------------

486 . mlogit NFLw1w3tracklow LnNFLw1tert w1Age Sex Race PovStat  if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -68.889363
Iteration 2:   log likelihood = -65.825081
Iteration 3:   log likelihood = -65.764187
Iteration 4:   log likelihood = -65.764084
Iteration 5:   log likelihood = -65.764084

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(5)    =  103.03
                                                      Prob > chi2   =  0.0000
Log likelihood = -65.764084                           Pseudo R2     =  0.4393

------------------------------------------------------------------------------
NFLw1w3tra~w | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw1tert |  -2.549333   .3937932    -6.47   0.000    -3.321154   -1.777513
       w1Age |  -.0310076   .0276119    -1.12   0.261     -.085126    .0231108
         Sex |    .124784   .4539511     0.27   0.783    -.7649438    1.014512
        Race |   .5613978   .4529786     1.24   0.215     -.326424     1.44922
     PovStat |  -.2417596   .4848482    -0.50   0.618    -1.192045    .7085255
       _cons |   4.744841    1.80469     2.63   0.009     1.207713    8.281969
------------------------------------------------------------------------------
```

```
487 .
488 .
489 . mlogit NFLw1w3trackhigh LnNFLw1tert w1Age Sex Race PovStat ICV_volM2 if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -50.815898
Iteration 2:   log likelihood =  -43.75751
Iteration 3:   log likelihood = -43.160395
Iteration 4:   log likelihood = -43.155988
Iteration 5:   log likelihood = -43.155986

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(6)    =  148.25
                                                      Prob > chi2   =  0.0000
Log likelihood = -43.155986                           Pseudo R2     =  0.6320

------------------------------------------------------------------------------
NFLw1w3tra~h | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw1tert |   4.012737   .6265781     6.40   0.000     2.784667    5.240808
       w1Age |   .0270829   .0397821     0.68   0.496    -.0508886    .1050544
         Sex |   .3586471   .7427033     0.48   0.629    -1.097025    1.814319
        Race |  -1.439725    .718539    -2.00   0.045    -2.848036   -.0314147
     PovStat |  -.2578823   .6533084    -0.39   0.693    -1.538343    1.022579
   ICV_volM2 |  -1.39e-06   2.65e-06    -0.52   0.601    -6.59e-06    3.81e-06
       _cons |  -7.317225   4.405463    -1.66   0.097    -15.95177    1.317323
------------------------------------------------------------------------------

490 . mlogit NFLw1w3tracklow LnNFLw1tert w1Age Sex Race PovStat ICV_volM2 if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -68.890291
Iteration 2:   log likelihood = -65.813245
Iteration 3:   log likelihood = -65.751448
Iteration 4:   log likelihood = -65.751342
Iteration 5:   log likelihood = -65.751342

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(6)    =  103.06
                                                      Prob > chi2   =  0.0000
Log likelihood = -65.751342                           Pseudo R2     =  0.4394

------------------------------------------------------------------------------
NFLw1w3tra~w | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw1tert |  -2.549905   .3937222    -6.48   0.000    -3.321586   -1.778223
       w1Age |  -.0314812   .0277501    -1.13   0.257    -.0858704    .0229079
         Sex |   .1884266   .6052307     0.31   0.756    -.9978038    1.374657
        Race |   .5283909   .4973307     1.06   0.288    -.4463595    1.503141
     PovStat |  -.2486075    .486645    -0.51   0.609    -1.202414    .7051991
   ICV_volM2 |  -3.60e-07   2.26e-06    -0.16   0.873    -4.78e-06    4.06e-06
       _cons |   5.212652   3.449063     1.51   0.131    -1.547387    11.97269
------------------------------------------------------------------------------
```

```
491 .
492 .
493 . save, replace
    file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

494 .
495 .
496 .
497 .
498 . ////////////////////////////////BY LnNFL at visit 2, tertiles//////////////////////
    >
499 .
500 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

501 . sort HNDID

502 . capture drop _merge

503 . save, replace
    file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

504 .
505 . tab sample_final
```

sample_final	Freq.	Percent	Cum.
0	3,541	95.19	95.19
1	179	4.81	100.00
Total	3,720	100.00	

```
506 .
507 .
508 .
509 . capture drop LnNFLw3tert

510 .
511 . xtile LnNFLw3tert=LnNFLw3 if sample_final==1, nq(3)

512 . bysort LnNFLw3tert: su LnNFLw1
```

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	60	1.567683	.358268	.6022635	2.228205

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	60	2.086779	.4083959	1.437547	4.286799

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	59	2.385999	.4498069	1.646695	3.739766

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	515	1.969974	.5000774	.2497199	4.355302

513 . bysort LnNFLw3tert: su LnNFLw3

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	60	1.660805	.2466309	1.053142	1.991409

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	60	2.167912	.1021101	1.99743	2.35158

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	59	2.83145	.4979087	2.366195	5.371432

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw3	530	2.158426	.5639202	-.1807307	4.779036

514 . bysort LnNFLw3tert: su bayes1LnNFL

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	60	.0186758	.0443405	-.095264	.1179402

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	60	.0190426	.0629251	-.3087366	.1364969

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	59	.0767084	.0930206	-.0914577	.5216877

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1LnNFL	515	.0360965	.06044	-.1922796	.4570591

```
515 . bysort LnNFLw3tert: su deltaLnNFL
```

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	60	.0189854	.0933608	-.4083219	.2867394

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	60	.0189927	.1011683	-.4373254	.2554303

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	59	.0960487	.1266568	-.1483596	.6446922

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
deltaLnNFL	495	.0443271	.0922897	-.2859356	.618512

```
516 .
517 .
518 . save, replace
    file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

519 .
520 .
521 . **************LnNFL, v2, T1*****************************
522 .
523 . tab Sex if sample_final==1 & LnNFLw3tert==1
```

Sex	Freq.	Percent	Cum.
Women	34	56.67	56.67
Men	26	43.33	100.00
Total	60	100.00	

```
524 . su w1Age if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**60**	**41.755**	**7.504359**	**30.2**	**58.3**

```
525 . tab w1Agebr if sample_final==1 & LnNFLw3tert==1
```

w1Agebr	Freq.	Percent	Cum.
0	**52**	**86.67**	**86.67**
1	**8**	**13.33**	**100.00**
Total	**60**	**100.00**	

```
526 . tab Race if sample_final==1 & LnNFLw3tert==1
```

Race	Freq.	Percent	Cum.
White	**27**	**45.00**	**45.00**
AfrAm	**33**	**55.00**	**100.00**
Total	**60**	**100.00**	

```
527 . tab PovStat if sample_final==1 & LnNFLw3tert==1
```

Poverty status	Freq.	Percent	Cum.
Above	**36**	**60.00**	**60.00**
Below	**24**	**40.00**	**100.00**
Total	**60**	**100.00**	

```
528 .
529 . su TIME_V1SCAN if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	**60**	**1992.367**	**666.2447**	**832**	**3685**

```
530 . su TIME_V2SCAN if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	**60**	**447.0333**	**478.6871**	**26**	**1830**

```
531 .
532 .
533 .
534 . ****IMPUTED DATA COVARIATES*****
535 . use finaldata_imputed, clear
```

```
536 .
537 .
538 . capture drop LnNFLw3tert

539 .
540 . xtile LnNFLw3tert=LnNFLw3 if sample_final==1, nq(3)

541 . bysort LnNFLw3tert: su LnNFLw1
```

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**1.567683**	**.3557643**	**.6022635**	**2.228205**

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**360**	**2.086779**	**.4055419**	**1.437547**	**4.286799**

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**354**	**2.385999**	**.44661**	**1.646695**	**3.739766**

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**3,090**	**1.969974**	**.4996725**	**.2497199**	**4.355302**

```
542 .
543 . save, replace
file finaldata_imputed.dta saved

544 .
545 .
546 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
547 .
548 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1BMI	**29.9931**	**.8788657**	**28.23327**	**31.75293**

```
549 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0801
                                  Largest FMI     =     0.1089
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      45.45
                                          avg     =      49.02
Within VCE type:     Analytic             max     =      52.69
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1dxDiabetes				
no	.74	.0589098	.6216104	.8583896
pre-diabetes	.1733333	.0514961	.0696434	.2770233
diabetes	.0866667	.0372181	.0120064	.1613269

```
550 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Glucose	97.05	3.019936	91.0029	103.0971

```
551 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.4217
                                  Largest FMI     =     0.3329
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      21.32
                                          avg     =      21.32
Within VCE type:     Analytic             max     =      21.32
```

	Mean	Std. err.	[95% conf.	interval]
w1Creatinine	.8761138	.0429354	.7869072	.9653204

```
552 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
  w1USpecGrav |   1.019733   .0009736      1.017784    1.021683
------------------------------------------------------------------------------

553 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1BUN |        12.5   .5412373      11.41623    13.58377
------------------------------------------------------------------------------

554 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1ALP |        69.3   2.672025      63.94956    74.65044
------------------------------------------------------------------------------

555 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1UricAcid	**5.403333**	**.1739532**	**5.055011**	**5.751656**

```
556 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Albumin	**4.343333**	**.0354444**	**4.27236**	**4.414307**

```
557 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.623333**	**.2326265**	**2.157524**	**3.089143**

```
558 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0902
                                  Largest FMI     =     0.0892
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      48.07
                                          avg     =      48.07
Within VCE type:     Analytic             max     =      48.07
```

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**18.31583**	**1.308737**	**15.68454**	**20.94712**

```
559 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0390
                                  Largest FMI     =     0.0404
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      53.91
                                          avg     =      53.91
Within VCE type:     Analytic             max     =      53.91
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1currdrugs				
0	.81	.0516129	.7065184	.9134816
1	.19	.0516129	.0865184	.2934816

```
560 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw3tert==1

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1SRH				
1	.2333333	.0546029	.1239968	.3426698
2	.3666667	.0622123	.2420933	.4912401
3	.4	.0632456	.2733576	.5266424

```
561 .
562 .
563 .
564 .
565 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

566 .
567 .
568 .
569 .
570 . su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw3tert==1, det

                          LnNFLw1
-------------------------------------------------------------
      Percentiles      Smallest
 1%     .6022635       .6022635
 5%     .8738109       .7098107
10%     1.095444       .7859286       Obs                  60
25%     1.369547       .9616931       Sum of wgt.          60
```

50%	**1.592359**		Mean	**1.567683**
		Largest	Std. dev.	**.358268**
75%	**1.836704**	**2.094229**		
90%	**2.011078**	**2.101746**	Variance	**.1283559**
95%	**2.097988**	**2.212927**	Skewness	**-.5295161**
99%	**2.228205**	**2.228205**	Kurtosis	**3.123889**

LnNFLw3

	Percentiles	Smallest		
1%	**1.053142**	**1.053142**		
5%	**1.135396**	**1.094554**		
10%	**1.315597**	**1.134186**	Obs	**60**
25%	**1.467108**	**1.136606**	Sum of wgt.	**60**
50%	**1.704468**		Mean	**1.660805**
		Largest	Std. dev.	**.2466309**
75%	**1.849436**	**1.973774**		
90%	**1.953475**	**1.97628**	Variance	**.0608268**
95%	**1.975027**	**1.980043**	Skewness	**-.717026**
99%	**1.991409**	**1.991409**	Kurtosis	**2.710009**

```
571 . su LnNFLw3 if sample_final==1 & LnNFLw3tert==1, det
```

LnNFLw3

	Percentiles	Smallest		
1%	**1.053142**	**1.053142**		
5%	**1.135396**	**1.094554**		
10%	**1.315597**	**1.134186**	Obs	**60**
25%	**1.467108**	**1.136606**	Sum of wgt.	**60**
50%	**1.704468**		Mean	**1.660805**
		Largest	Std. dev.	**.2466309**
75%	**1.849436**	**1.973774**		
90%	**1.953475**	**1.97628**	Variance	**.0608268**
95%	**1.975027**	**1.980043**	Skewness	**-.717026**
99%	**1.991409**	**1.991409**	Kurtosis	**2.710009**

```
572 . su bayes1LnNFL if sample_final==1 & LnNFLw3tert==1, det
```

(mean) bayes1LnNFL

	Percentiles	Smallest		
1%	**-.095264**	**-.095264**		
5%	**-.0546339**	**-.0860051**		
10%	**-.0429382**	**-.0595876**	Obs	**60**
25%	**-.0101553**	**-.0496803**	Sum of wgt.	**60**
50%	**.0286265**		Mean	**.0186758**
		Largest	Std. dev.	**.0443405**
75%	**.0493984**	**.0766069**		
90%	**.0712584**	**.0833827**	Variance	**.0019661**
95%	**.0799948**	**.0904047**	Skewness	**-.4035608**
99%	**.1179402**	**.1179402**	Kurtosis	**2.832067**

```
573 . su deltaLnNFL if sample_final==1 & LnNFLw3tert==1, det

                          deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.4083219      -.4083219
 5%    -.1189079      -.1223966
10%    -.0868617      -.1213219       Obs                  60
25%    -.0245568       -.116494       Sum of wgt.          60

50%      .032525                      Mean           .0189854
                        Largest       Std. dev.      .0933608
75%     .0672279       .1088836
90%     .1057537       .1237029       Variance       .0087162
95%     .1162932       .1855631       Skewness      -1.320984
99%     .2867394       .2867394       Kurtosis       9.457644

574 .
575 . su ICV_volM2 if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         60     1333967    147315.2    1100430    1756980

576 .
577 . su TOTALBRAIN if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   TOTALBRAIN |         60     1153259    123664.3   944696.4    1512220

578 . su GM if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         60    654669.6     67051.1     527832   817053.6

579 . su WM if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          WM |         60    458804.6    56111.37     367068   638378.4

580 .
581 .
582 . su FRONTAL_GM_L_volM2  if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
FRONTAL_GM.. |         60     95524.2    9915.682    76700.4   120338.4

583 . su FRONTAL_WM_L_volM2  if sample_final==1 & LnNFLw3tert==1

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
F~WM_L_volM2 |         60    85756.82    10817.08    68972.4   122709.6
```

```
584 . su TEMPORAL_GM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**50700.7**	**6471.284**	**39304.8**	**65589.6**

```
585 . su TEMPORAL_WM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	**60**	**49375**	**6731.651**	**37966.8**	**72369.6**

```
586 . su PARIETAL_GM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**47239.04**	**5675**	**34833.6**	**61736.4**

```
587 . su PARIETAL_WM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	**60**	**43790.08**	**5723.091**	**35464.8**	**59677.2**

```
588 . su OCCIPITAL_GM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**38621.68**	**5117.304**	**27384**	**52106.4**

```
589 . su OCCIPITAL_WM_L_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	**60**	**21122.8**	**3052.595**	**14616**	**29320.8**

```
590 .
591 .
592 . su FRONTAL_GM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**60**	**95774.24**	**10377.2**	**77472**	**123519.6**

```
593 . su FRONTAL_WM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_R_volM2	**60**	**88058.62**	**11292.03**	**70454.4**	**125416.8**

```
594 . su TEMPORAL_GM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**51823.04**	**6186.456**	**41319.6**	**66536.4**

```
595 . su TEMPORAL_WM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_R_volM2	**60**	**50123.22**	**6468.318**	**40400.4**	**71120.4**

```
596 . su PARIETAL_GM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**48027.16**	**5568.933**	**37462.8**	**61358.4**

```
597 . su PARIETAL_WM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_R_volM2	**60**	**41620**	**5544.938**	**34334.4**	**57961.2**

```
598 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**39540.8**	**5469.651**	**27388.8**	**52525.2**

```
599 . su OCCIPITAL_WM_R_volM2  if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_R_volM2	**60**	**20692.24**	**3029.982**	**14373.6**	**27912**

```
600 .
601 .
602 . su Left_Hippocampus if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	**60**	**3542.62**	**416.0287**	**2948.4**	**5062.8**

```
603 . su Right_Hippocampus if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	**60**	**3847.12**	**460.3241**	**3220.8**	**5422.8**

```
604 .
605 . su LnLesion_Volume if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	**60**	**4.689053**	**5.451157**	**-18.42068**	**8.079618**

```
606 .
607 . su Left_Hippocampuspct if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	**60**	**.2661446**	**.0194383**	**.2132792**	**.3114081**

```
608 . su Right_Hippocampuspct if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	**60**	**.2889636**	**.0213294**	**.2331134**	**.3356667**

```
609 .
610 . su LnLesion_Volumepct if sample_final==1 & LnNFLw3tert==1
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	**60**	**-4.80371**	**5.433048**	**-27.87958**	**-1.539899**

```
611 .
612 . ************************LnNFL, V2, second tertile****************
613 .
614 . **************LnNFL, v2, T2*****************************
615 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

616 .
617 . tab Sex if sample_final==1 & LnNFLw3tert==2
```

Sex	Freq.	Percent	Cum.
Women	**35**	**58.33**	**58.33**
Men	**25**	**41.67**	**100.00**
Total	**60**	**100.00**	

```
618 . su w1Age if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**60**	**47.61667**	**7.991673**	**30.8**	**62.2**

```
619 . tab w1Agebr if sample_final==1 & LnNFLw3tert==2
```

w1Agebr	Freq.	Percent	Cum.
0	**36**	**60.00**	**60.00**
1	**24**	**40.00**	**100.00**
Total	**60**	**100.00**	

```
620 . tab Race if sample_final==1 & LnNFLw3tert==2
```

Race	Freq.	Percent	Cum.
White	**38**	**63.33**	**63.33**
AfrAm	**22**	**36.67**	**100.00**
Total	**60**	**100.00**	

```
621 . tab PovStat if sample_final==1 & LnNFLw3tert==2
```

Poverty status	Freq.	Percent	Cum.
Above	44	73.33	73.33
Below	16	26.67	100.00
Total	60	100.00	

```
622 .
623 . su TIME_V1SCAN if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	60	1860.533	621.1954	845	3410

```
624 . su TIME_V2SCAN if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	60	334.1833	374.1384	28	1648

```
625 .
626 .
627 .
628 . ****IMPUTED DATA COVARIATES*****
629 . use finaldata_imputed, clear

630 .
631 .
632 . capture drop LnNFLw3tert

633 .
634 . xtile LnNFLw3tert=LnNFLw3 if sample_final==1, nq(3)

635 . bysort LnNFLw3tert: su LnNFLw1
```

-> LnNFLw3tert = 1

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	360	1.567683	.3557643	.6022635	2.228205

-> LnNFLw3tert = 2

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	360	2.086779	.4055419	1.437547	4.286799

-> LnNFLw3tert = 3

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	354	2.385999	.44661	1.646695	3.739766

-> LnNFLw3tert = .

Variable	Obs	Mean	Std. dev.	Min	Max
LnNFLw1	**3,090**	**1.969974**	**.4996725**	**.2497199**	**4.355302**

```
636 .
637 . save, replace
    file finaldata_imputed.dta saved

638 .
639 .
640 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
641 .
642 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

    ------------------------------------------------------------------------------
                 |      Mean   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
           w1BMI |   29.44395    .843937      27.75406    31.13384
    ------------------------------------------------------------------------------

643 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Proportion estimation             Number of obs   =         60
                                      Average RVI     =     0.0146
                                      Largest FMI     =     0.0298
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      54.94
                                              avg     =      55.92
    Within VCE type:     Analytic             max     =      57.10

    ------------------------------------------------------------------------------
                 |                                              Normal
                 |  Proportion   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
     w1dxDiabetes |
              no |   .7133333   .0589413      .5952464    .8314203
    pre-diabetes |        .17    .049169      .0714608    .2685392
        diabetes |   .1166667   .0414438      .0336798    .1996535
    ------------------------------------------------------------------------------

644 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1Glucose	**97.51667**	**2.412127**	**92.68664**	**102.3467**

```
645 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0122
                                  Largest FMI     =     0.0136
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      56.29
                                          avg     =      56.29
Within VCE type:     Analytic             max     =      56.29
```

	Mean	Std. err.	[95% conf.	interval]
w1Creatinine	**.8626671**	**.0314973**	**.7995777**	**.9257565**

```
646 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1USpecGrav	**1.018817**	**.0006219**	**1.017571**	**1.020062**

```
647 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         60
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         59
DF adjustment:   Small sample     DF:     min     =      57.10
                                          avg     =      57.10
Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1BUN	**13.56667**	**.4057264**	**12.75424**	**14.37909**

```
648 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1ALP |      73.45   2.189526      69.06571    77.83429
------------------------------------------------------------------------------

649 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
  w1UricAcid |   5.443333   .2127353      5.017354    5.869313
------------------------------------------------------------------------------

650 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
   w1Albumin |      4.365   .0353214      4.294273    4.435727
------------------------------------------------------------------------------

651 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw3tert==2

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         60
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         59
    DF adjustment:   Small sample     DF:     min     =      57.10
                                              avg     =      57.10
    Within VCE type:     Analytic             max     =      57.10
```

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.725**	**.2667933**	**2.190775**	**3.259225**

652 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates — Imputations = **5**
Mean estimation — Number of obs = **60**
Average RVI = **0.0562**
Largest FMI = **0.0572**
Complete DF = **59**
DF adjustment: **Small sample** — DF: min = **52.06**
avg = **52.06**
Within VCE type: **Analytic** — max = **52.06**

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**23.92719**	**1.626888**	**20.66269**	**27.19169**

653 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates — Imputations = **5**
Proportion estimation — Number of obs = **60**
Average RVI = **0.0559**
Largest FMI = **0.0569**
Complete DF = **59**
DF adjustment: **Small sample** — DF: min = **52.10**
avg = **52.10**
Within VCE type: **Analytic** — max = **52.10**

			Normal	
	Proportion	Std. err.	[95% conf.	interval]
w1currdrugs				
0	**.7666667**	**.0560919**	**.6541151**	**.8792183**
1	**.2333333**	**.0560919**	**.1207817**	**.3458849**

654 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw3tert==2

Multiple-imputation estimates — Imputations = **5**
Proportion estimation — Number of obs = **60**
Average RVI = **0.0000**
Largest FMI = **0.0000**
Complete DF = **59**
DF adjustment: **Small sample** — DF: min = **57.10**
avg = **57.10**
Within VCE type: **Analytic** — max = **57.10**

			Normal	
	Proportion	Std. err.	[95% conf.	interval]
w1SRH				
1	**.2**	**.0516398**	**.0965969**	**.3034031**
2	**.4**	**.0632456**	**.2733576**	**.5266424**
3	**.4**	**.0632456**	**.2733576**	**.5266424**

```
655 .
656 .
657 .
658 .
659 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

660 .
661 .
662 .
663 .
664 . su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw3tert==2, det
```

LnNFLw1

Percentiles		Smallest		
1%	**1.437547**	**1.437547**		
5%	**1.616701**	**1.529056**		
10%	**1.707449**	**1.602925**	Obs	**60**
25%	**1.852155**	**1.630477**	Sum of wgt.	**60**
50%	**2.024147**		Mean	**2.086779**
		Largest	Std. dev.	**.4083959**
75%	**2.243166**	**2.605499**		
90%	**2.535701**	**2.679991**	Variance	**.1667872**
95%	**2.642745**	**2.752249**	Skewness	**2.668522**
99%	**4.286799**	**4.286799**	Kurtosis	**15.20798**

LnNFLw3

Percentiles		Smallest		
1%	**1.99743**	**1.99743**		
5%	**2.016409**	**2.01117**		
10%	**2.025537**	**2.014852**	Obs	**60**
25%	**2.084026**	**2.017966**	Sum of wgt.	**60**
50%	**2.1789**		Mean	**2.167912**
		Largest	Std. dev.	**.1021101**
75%	**2.25596**	**2.334778**		
90%	**2.310652**	**2.343672**	Variance	**.0104265**
95%	**2.339225**	**2.344748**	Skewness	**.0780709**
99%	**2.35158**	**2.35158**	Kurtosis	**1.885209**

```
665 . su LnNFLw3 if sample_final==1 & LnNFLw3tert==2, det
```

LnNFLw3

Percentiles		Smallest		
1%	**1.99743**	**1.99743**		
5%	**2.016409**	**2.01117**		
10%	**2.025537**	**2.014852**	Obs	**60**
25%	**2.084026**	**2.017966**	Sum of wgt.	**60**
50%	**2.1789**		Mean	**2.167912**
		Largest	Std. dev.	**.1021101**
75%	**2.25596**	**2.334778**		
90%	**2.310652**	**2.343672**	Variance	**.0104265**
95%	**2.339225**	**2.344748**	Skewness	**.0780709**
99%	**2.35158**	**2.35158**	Kurtosis	**1.885209**

```
666 . su bayes1LnNFL if sample_final==1 & LnNFLw3tert==2, det

                    (mean) bayes1LnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.3087366      -.3087366
 5%    -.0754541       -.084728
10%    -.0454815      -.0803389       Obs                  60
25%    -.0063596      -.0705693       Sum of wgt.          60

50%      .031897                      Mean           .0190426
                        Largest       Std. dev.      .0629251
75%     .0519569        .087446
90%     .0844546       .1072878       Variance       .0039596
95%     .0973669        .111084       Skewness      -2.358201
99%     .1364969       .1364969       Kurtosis       13.5637

667 . su deltaLnNFL if sample_final==1 & LnNFLw3tert==2, det

                       deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.4373254      -.4373254
 5%    -.1591231      -.1839202
10%    -.0854878      -.1746917       Obs                  60
25%    -.0180134      -.1435545       Sum of wgt.          60

50%     .0416317                      Mean           .0189927
                        Largest       Std. dev.      .1011683
75%     .0684903       .1440773
90%     .1163688          .1444       Variance        .010235
95%     .1442387       .2228006       Skewness       -1.48484
99%     .2554303       .2554303       Kurtosis       8.836868

668 .
669 . su ICV_volM2 if sample_final==1 & LnNFLw3tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         60     1327240    130181.2    1068845    1706040

670 .
671 . su TOTALBRAIN if sample_final==1 & LnNFLw3tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   TOTALBRAIN |         60     1132592    108304.6   903789.6    1450329

672 . su GM if sample_final==1 & LnNFLw3tert==2

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         60    636967.9    62593.41   504788.4   786309.6
```

```
673 . su WM if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
WM	**60**	**453604**	**47452.79**	**361110**	**591919.3**

```
674 .
675 .
676 . su FRONTAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**60**	**92329.48**	**10088.24**	**71704.8**	**116128.8**

```
677 . su FRONTAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_L_volM2	**60**	**84499.56**	**9541.429**	**64902**	**111006**

```
678 . su TEMPORAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**60**	**50225.16**	**5847.477**	**38502**	**67758**

```
679 . su TEMPORAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	**60**	**48983.04**	**5437.42**	**37683.6**	**66094.8**

```
680 . su PARIETAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**60**	**45917.98**	**5436.594**	**32808**	**60613.2**

```
681 . su PARIETAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	**60**	**43590.86**	**4931.851**	**34598.4**	**57307.2**

```
682 . su OCCIPITAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**60**	**38286.56**	**5049.26**	**30019.2**	**52540.8**

```
683 . su OCCIPITAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	**60**	**21080.9**	**2651.783**	**17046**	**28339.2**

```
684 .
685 .
686 . su FRONTAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	60	92076	10121.89	73581.6	118018.8

```
687 . su FRONTAL_WM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_R_volM2	60	86520.04	9607.437	66556.8	112652.4

```
688 . su TEMPORAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	60	51021.26	5952.406	39555.6	67380

```
689 . su TEMPORAL_WM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_R_volM2	60	49504.54	5555.039	37520.4	66342

```
690 . su PARIETAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	60	46319.2	5383.896	33528	59470.8

```
691 . su PARIETAL_WM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_R_volM2	60	41468.24	4900.664	31885.2	55450.8

```
692 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	60	39529.26	5313.044	29036.4	55772.4

```
693 . su OCCIPITAL_WM_R if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPIT~WM_R	60	20762.04	2841.969	15913.2	28306.8

```
694 .
695 .
696 . su Left_Hippocampus if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	60	3602.5	345.3669	2968.8	4735.2

```
697 . su Right_Hippocampus if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	**60**	**3841.22**	**363.7171**	**3061.2**	**4891.2**

```
698 .
699 . su LnLesion_Volume if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	**60**	**6.248785**	**1.275458**	**3.015535**	**9.335351**

```
700 .
701 . su Left_Hippocampuspct if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	**60**	**.2725445**	**.023803**	**.2134153**	**.3339828**

```
702 . su Right_Hippocampuspct if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	**60**	**.2906309**	**.0256057**	**.2311856**	**.3464778**

```
703 .
704 . su LnLesion_Volumepct if sample_final==1 & LnNFLw3tert==2
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	**60**	**-3.240032**	**1.25411**	**-6.453584**	**-.1922425**

```
705 .
706 .
707 . **************LnNFL, v2, T3*****************************
708 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

709 .
710 . tab Sex if sample_final==1 & LnNFLw3tert==3
```

Sex	Freq.	Percent	Cum.
Women	**30**	**50.85**	**50.85**
Men	**29**	**49.15**	**100.00**
Total	**59**	**100.00**	

```
711 . su w1Age if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
w1Age	**59**	**53.98983**	**7.44369**	**34.7**	**64.9**

```
712 . tab w1Agebr if sample_final==1 & LnNFLw3tert==3
```

w1Agebr	Freq.	Percent	Cum.
0	18	30.51	30.51
1	41	69.49	100.00
Total	59	100.00	

```
713 . tab Race if sample_final==1 & LnNFLw3tert==3
```

Race	Freq.	Percent	Cum.
White	40	67.80	67.80
AfrAm	19	32.20	100.00
Total	59	100.00	

```
714 . tab PovStat if sample_final==1 & LnNFLw3tert==3
```

Poverty status	Freq.	Percent	Cum.
Above	43	72.88	72.88
Below	16	27.12	100.00
Total	59	100.00	

```
715 .
716 . su TIME_V1SCAN if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V1SCAN	59	2083.305	601.9185	1020	3639

```
717 . su TIME_V2SCAN if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TIME_V2SCAN	59	453	464.8895	32	1895

```
718 .
719 .
720 .
721 . ****IMPUTED DATA COVARIATES*****
722 . use finaldata_imputed, clear

723 .
724 .
725 . capture drop LnNFLw3tert

726 .
727 . xtile LnNFLw3tert=LnNFLw3 if sample_final==1, nq(3)
```

```
728 .
729 . save, replace
    file finaldata_imputed.dta saved

730 .
731 .
732 . ****w1BMI w1dxDiabetes w1Glucose w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid w1Albumin w1EosinPct w1TotalD w1c
733 .
734 . mi estimate: mean w1BMI if sample_final==1 & LnNFLw3tert==3

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         59
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      56.10
                                              avg     =      56.10
    Within VCE type:     Analytic             max     =      56.10

    ------------------------------------------------------------------------------
                 |       Mean   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
           w1BMI |    28.5595   .7728351      27.01139    30.10762
    ------------------------------------------------------------------------------

735 . mi estimate: prop w1dxDiabetes if sample_final==1 & LnNFLw3tert==3

    Multiple-imputation estimates     Imputations     =          5
    Proportion estimation             Number of obs   =         59
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      56.10
                                              avg     =      56.10
    Within VCE type:     Analytic             max     =      56.10

    ------------------------------------------------------------------------------
                 |                                                Normal
                 |  Proportion   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
     w1dxDiabetes |
              no |   .6949153   .0599446      .5748364    .8149941
    pre-diabetes |   .1864407   .0507036      .0848731    .2880083
        diabetes |   .1186441   .0420991      .0343127    .2029754
    ------------------------------------------------------------------------------

736 . mi estimate: mean w1Glucose if sample_final==1 & LnNFLw3tert==3

    Multiple-imputation estimates     Imputations     =          5
    Mean estimation                   Number of obs   =         59
                                      Average RVI     =     0.0000
                                      Largest FMI     =     0.0000
                                      Complete DF     =         58
    DF adjustment:   Small sample     DF:     min     =      56.10
                                              avg     =      56.10
    Within VCE type:     Analytic             max     =      56.10

    ------------------------------------------------------------------------------
                 |       Mean   Std. err.     [95% conf. interval]
    -------------+----------------------------------------------------------------
       w1Glucose |   105.2034   4.988401      95.21081     115.196
    ------------------------------------------------------------------------------
```

```
737 . mi estimate: mean w1Creatinine if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
w1Creatinine |   .9359322   .0226349      .8905908    .9812736
------------------------------------------------------------------------------

738 . mi estimate: mean w1USpecGrav if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0308
                                  Largest FMI     =     0.0323
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      53.77
                                          avg     =      53.77
Within VCE type:     Analytic             max     =      53.77

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
 w1USpecGrav |   1.019321   .0008462      1.017624    1.021018
------------------------------------------------------------------------------

739 . mi estimate: mean w1BUN if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10

------------------------------------------------------------------------------
             |       Mean   Std. err.     [95% conf. interval]
-------------+----------------------------------------------------------------
       w1BUN |   15.20339   .6153025      13.97084    16.43594
------------------------------------------------------------------------------

740 . mi estimate: mean w1ALP if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Mean	Std. err.	[95% conf.	interval]
w1ALP	**83**	**2.978493**	**77.03359**	**88.96641**

741 . mi estimate: mean w1UricAcid if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates — Imputations = **5**
Mean estimation — Number of obs = **59**
Average RVI = **0.0000**
Largest FMI = **0.0000**
Complete DF = **58**
DF adjustment: **Small sample** — DF: min = **56.10**
avg = **56.10**
Within VCE type: **Analytic** — max = **56.10**

	Mean	Std. err.	[95% conf.	interval]
w1UricAcid	**5.644068**	**.1838333**	**5.27582**	**6.012316**

742 . mi estimate: mean w1Albumin if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates — Imputations = **5**
Mean estimation — Number of obs = **59**
Average RVI = **0.0000**
Largest FMI = **0.0000**
Complete DF = **58**
DF adjustment: **Small sample** — DF: min = **56.10**
avg = **56.10**
Within VCE type: **Analytic** — max = **56.10**

	Mean	Std. err.	[95% conf.	interval]
w1Albumin	**4.316949**	**.033945**	**4.248952**	**4.384947**

743 . mi estimate: mean w1EosinPct if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates — Imputations = **5**
Mean estimation — Number of obs = **59**
Average RVI = **0.0188**
Largest FMI = **0.0202**
Complete DF = **58**
DF adjustment: **Small sample** — DF: min = **54.81**
avg = **54.81**
Within VCE type: **Analytic** — max = **54.81**

	Mean	Std. err.	[95% conf.	interval]
w1EosinPct	**2.899592**	**.2704587**	**2.357538**	**3.441646**

```
744 . mi estimate: mean w1TotalD if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Mean estimation                   Number of obs   =         59
                                  Average RVI     =     0.0889
                                  Largest FMI     =     0.0881
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      47.45
                                          avg     =      47.45
Within VCE type:     Analytic             max     =      47.45
```

	Mean	Std. err.	[95% conf.	interval]
w1TotalD	**24.81399**	**1.254792**	**22.2903**	**27.33767**

```
745 . mi estimate: prop w1currdrugs if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         59
                                  Average RVI     =     0.0414
                                  Largest FMI     =     0.0428
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      52.74
                                          avg     =      52.74
Within VCE type:     Analytic             max     =      52.74
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1currdrugs				
0	**.820339**	**.0509928**	**.7180488**	**.9226292**
1	**.179661**	**.0509928**	**.0773708**	**.2819512**

```
746 . mi estimate: prop w1SRH if sample_final==1 & LnNFLw3tert==3

Multiple-imputation estimates     Imputations     =          5
Proportion estimation             Number of obs   =         59
                                  Average RVI     =     0.0000
                                  Largest FMI     =     0.0000
                                  Complete DF     =         58
DF adjustment:   Small sample     DF:     min     =      56.10
                                          avg     =      56.10
Within VCE type:     Analytic             max     =      56.10
```

	Proportion	Std. err.	Normal [95% conf.	interval]
w1SRH				
1	**.220339**	**.0539601**	**.1122481**	**.3284298**
2	**.3389831**	**.0616268**	**.2155346**	**.4624315**
3	**.440678**	**.0646347**	**.3112041**	**.5701518**

```
747 .
748 .
749 .
750 .
751 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

752 .
753 .
754 .
755 .
756 . su LnNFLw1 LnNFLw3 if sample_final==1 & LnNFLw3tert==3, det

                            LnNFLw1
-------------------------------------------------------------
      Percentiles      Smallest
 1%     1.646695       1.646695
 5%     1.702152       1.649809
10%     1.825625       1.702152       Obs                  59
25%     2.106699       1.805577       Sum of wgt.          59

50%     2.280203                      Mean           2.385999
                       Largest        Std. dev.      .4498069
75%     2.635799       3.092389
90%     2.938753       3.422423       Variance       .2023263
95%     3.422423       3.673317       Skewness       .8683697
99%     3.739766       3.739766       Kurtosis       4.012111

                            LnNFLw3
-------------------------------------------------------------
      Percentiles      Smallest
 1%     2.366195       2.366195
 5%     2.372947       2.370361
10%     2.392837       2.372947       Obs                  59
25%     2.559216       2.374536       Sum of wgt.          59

50%     2.686102                      Mean            2.83145
                       Largest        Std. dev.      .4979087
75%     2.992146       3.523666
90%     3.405375       3.591589       Variance        .247913
95%     3.591589         4.2382       Skewness       2.782217
99%     5.371432       5.371432       Kurtosis       13.41141

757 . su LnNFLw3 if sample_final==1 & LnNFLw3tert==3, det

                            LnNFLw3
-------------------------------------------------------------
      Percentiles      Smallest
 1%     2.366195       2.366195
 5%     2.372947       2.370361
10%     2.392837       2.372947       Obs                  59
25%     2.559216       2.374536       Sum of wgt.          59

50%     2.686102                      Mean            2.83145
                       Largest        Std. dev.      .4979087
75%     2.992146       3.523666
90%     3.405375       3.591589       Variance        .247913
95%     3.591589         4.2382       Skewness       2.782217
99%     5.371432       5.371432       Kurtosis       13.41141
```

```
758 . su bayes1LnNFL if sample_final==1 & LnNFLw3tert==3, det

                    (mean) bayes1LnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.0914577      -.0914577
 5%    -.0191309      -.0391763
10%     .0015489      -.0191309       Obs                  59
25%      .026765      -.0115511       Sum of wgt.          59

50%     .0637722                      Mean           .0767084
                       Largest       Std. dev.      .0930206
75%     .0959741       .2464103
90%     .2038959       .2847928       Variance       .0086528
95%     .2847928       .3295927       Skewness       2.406709
99%     .5216877       .5216877       Kurtosis       11.22812

759 . su deltaLnNFL if sample_final==1 & LnNFLw3tert==3, det

                        deltaLnNFL
-------------------------------------------------------------
      Percentiles      Smallest
 1%    -.1483596      -.1483596
 5%    -.0471625        -.10854
10%    -.0177554      -.0471625       Obs                  59
25%     .0291804      -.0385892       Sum of wgt.          59

50%     .0839267                      Mean           .0960487
                       Largest       Std. dev.      .1266568
75%     .1234499       .3208535
90%     .2674375       .3901258       Variance       .0160419
95%     .3901258       .4469894       Skewness       1.880904
99%     .6446922       .6446922       Kurtosis       8.540674

760 .
761 .
762 . su ICV_volM2 if sample_final==1 & LnNFLw3tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
    ICV_volM2 |         59     1357026    148824.7    1000900    1689944

763 .
764 .
765 . su TOTALBRAIN if sample_final==1 & LnNFLw3tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
   TOTALBRAIN |         59     1142813    122879.4   841675.3    1420098

766 . su GM if sample_final==1 & LnNFLw3tert==3

    Variable |        Obs        Mean    Std. dev.       Min        Max
-------------+---------------------------------------------------------
          GM |         59    635483.6    65285.21     475422   781599.6
```

```
767 . su WM if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
WM	**59**	**459428.5**	**55368.16**	**329097.6**	**595353.6**

```
768 .
769 .
770 . su FRONTAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**59**	**91765.1**	**10067.01**	**67719.6**	**113550**

```
771 . su FRONTAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
F~WM_L_volM2	**59**	**85727.8**	**10724**	**61238.4**	**110815.2**

```
772 . su TEMPORAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**59**	**49936.4**	**6166.508**	**36861.6**	**62454**

```
773 . su TEMPORAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
T~WM_L_volM2	**59**	**49747.73**	**6189.794**	**38184**	**65448**

```
774 . su PARIETAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**59**	**45275.55**	**5823.333**	**31327.2**	**56282.4**

```
775 . su PARIETAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
P~WM_L_volM2	**59**	**44317.67**	**6184.183**	**31485.6**	**62379.6**

```
776 . su OCCIPITAL_GM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**59**	**37304.08**	**5489.717**	**26013.6**	**49680**

```
777 . su OCCIPITAL_WM_L_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
O~WM_L_volM2	**59**	**20877.7**	**3189.609**	**14732.4**	**31482**

```
778 .
779 .
780 . su FRONTAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_GM..	**59**	**92028.7**	**10164.5**	**68850**	**115717.2**

```
781 . su FRONTAL_WM_R if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
FRONTAL_WM_R	**59**	**88086.13**	**11190.57**	**63043.2**	**115912.8**

```
782 . su TEMPORAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_G..	**59**	**50811.6**	**5928.548**	**39058.8**	**62004**

```
783 . su TEMPORAL_WM_R if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
TEMPORAL_W~R	**59**	**50114.44**	**6186.691**	**36202.8**	**65991.6**

```
784 . su PARIETAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_G..	**59**	**45958.31**	**6163.861**	**32137.2**	**58681.2**

```
785 . su PARIETAL_WM_R if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
PARIETAL_W~R	**59**	**41968.27**	**5948.575**	**29893.2**	**58342.8**

```
786 . su OCCIPITAL_GM_R_volM2 if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPITAL_..	**59**	**38929.49**	**5491.953**	**27355.2**	**52215.6**

```
787 . su OCCIPITAL_WM_R if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
OCCIPIT~WM_R	**59**	**20996.42**	**2959.199**	**15376.8**	**28762.8**

```
788 .
789 .
790 . su Left_Hippocampus if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~s	**59**	**3464.441**	**386.2065**	**2732.4**	**4269.6**

```
791 . su Right_Hippocampus if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~s	**59**	**3794.339**	**415.3281**	**3045.6**	**4714.8**

```
792 .
793 . su LnLesion_Volume if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~e	**59**	**6.012991**	**3.452255**	**-18.42068**	**8.907179**

```
794 .
795 . su Left_Hippocampuspct if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Left_Hippo~t	**59**	**.256599**	**.0263942**	**.1973778**	**.3268734**

```
796 . su Right_Hippocampuspct if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
Right_Hipp~t	**59**	**.2808419**	**.0261243**	**.2221663**	**.3567998**

```
797 .
798 . su LnLesion_Volumepct if sample_final==1 & LnNFLw3tert==3
```

Variable	Obs	Mean	Std. dev.	Min	Max
LnLesion_V~t	**59**	**-3.496643**	**3.464311**	**-28.00085**	**-.7208845**

```
799 .
800 . ***************BY LnNFL tertile, V2************************
801 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

802 .
803 . **Overall**
804 .
805 . tab Sex LnNFLw3tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

Sex	3 quantiles of LnNFLw3 1	2	3	Total
Women	**34** **34.34** **56.67**	**35** **35.35** **58.33**	**30** **30.30** **50.85**	**99** **100.00** **55.31**
Men	**26** **32.50** **43.33**	**25** **31.25** **41.67**	**29** **36.25** **49.15**	**80** **100.00** **44.69**
Total	**60** **33.52** **100.00**	**60** **33.52** **100.00**	**59** **32.96** **100.00**	**179** **100.00** **100.00**

Pearson chi2(**2**) = **0.7419** Pr = **0.690**

806 . reg w1Age LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= **179**
				F(1, 177)	= **76.45**
Model	**4452.05171**	**1**	**4452.05171**	Prob > F	= **0.0000**
Residual	**10307.0547**	**177**	**58.2319472**	R-squared	= **0.3016**
				Adj R-squared	= **0.2977**
Total	**14759.1064**	**178**	**82.9163279**	Root MSE	= **7.631**

w1Age	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	**6.116695**	**.6995478**	**8.74**	**0.000**	**4.736167**	**7.497222**
_cons	**35.5533**	**1.507271**	**23.59**	**0.000**	**32.57876**	**38.52783**

807 . tab w1Agebr LnNFLw3tert if sample_final==1, row col chi

Key
frequency *row percentage* *column percentage*

w1Agebr	3 quantiles of LnNFLw3 1	2	3	Total
0	**52**	**36**	**18**	**106**
	49.06	**33.96**	**16.98**	**100.00**
	86.67	**60.00**	**30.51**	**59.22**
1	**8**	**24**	**41**	**73**
	10.96	**32.88**	**56.16**	**100.00**
	13.33	**40.00**	**69.49**	**40.78**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **38.8701** Pr = **0.000**

808 . tab Race LnNFLw3tert if sample_final==1, row col chi

Key
frequency *row percentage* *column percentage*

Race	3 quantiles of LnNFLw3 1	2	3	Total
White	**27**	**38**	**40**	**105**
	25.71	**36.19**	**38.10**	**100.00**
	45.00	**63.33**	**67.80**	**58.66**
AfrAm	**33**	**22**	**19**	**74**
	44.59	**29.73**	**25.68**	**100.00**
	55.00	**36.67**	**32.20**	**41.34**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **7.1881** Pr = **0.027**

809 . tab PovStat LnNFLw3tert if sample_final==1, row col chi

Key
frequency *row percentage* *column percentage*

Poverty status	3 quantiles of LnNFLw3 1	2	3	Total
Above	**36**	**44**	**43**	**123**
	29.27	**35.77**	**34.96**	**100.00**
	60.00	**73.33**	**72.88**	**68.72**
Below	**24**	**16**	**16**	**56**
	42.86	**28.57**	**28.57**	**100.00**
	40.00	**26.67**	**27.12**	**31.28**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **3.1915** Pr = **0.203**

810 .
811 . reg TIME_V1SCAN LnNFLw3tert if sample_final==1

Source	SS	df	MS		
Model	**240639.997**	**1**	**240639.997**	Number of obs	= **179**
Residual	**71223826.9**	**177**	**402394.502**	F(1, 177)	= **0.60**
Total	**71464466.9**	**178**	**401485.769**	Prob > F	= **0.4404**
				R-squared	= **0.0034**
				Adj R-squared	= **-0.0023**
				Root MSE	= **634.35**

TIME_V1SCAN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	**44.96977**	**58.15174**	**0.77**	**0.440**	**-69.79021**	**159.7297**
_cons	**1888.463**	**125.2959**	**15.07**	**0.000**	**1641.197**	**2135.729**

```
812 . reg TIME_V2SCAN LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
Model	**840.08551**	**1**	**840.08551**	Number of obs	= **179**
Residual	**34848399.5**	**177**	**196883.613**	F(1, 177)	= **0.00**
				Prob > F	= **0.9480**
				R-squared	= **0.0000**
				Adj R-squared	= **-0.0056**
Total	**34849239.6**	**178**	**195782.245**	Root MSE	= **443.72**

TIME_V2SCAN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	**2.657042**	**40.67631**	**0.07**	**0.948**	**-77.61591**	**82.92999**
_cons	**405.8739**	**87.64265**	**4.63**	**0.000**	**232.9149**	**578.833**

```
813 .
814 .
815 . ****IMPUTED DATA COVARIATES*****
816 . use finaldata_imputed, clear

817 .
818 .
819 . mi estimate: reg w1BMI LnNFLw3tert if sample_final==1
```

Multiple-imputation estimates		Imputations	= **5**
Linear regression		Number of obs	= **179**
		Average RVI	= **0.0000**
		Largest FMI	= **0.0000**
		Complete DF	= **177**
DF adjustment: **Small sample**		DF: min	= **175.03**
		avg	= **175.03**
		max	= **175.03**
Model F test: **Equal FMI**		F(**1, 175.0**)	= **1.48**
Within VCE type: **OLS**		Prob > F	= **0.2254**

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	**-.7163262**	**.5887478**	**-1.22**	**0.225**	**-1.878285**	**.4456323**
_cons	**30.76515**	**1.268538**	**24.25**	**0.000**	**28.26155**	**33.26875**

```
820 . mi estimate: mlogit w1dxDiabetes LnNFLw3tert if sample_final==1,baseoutcome(0)
```

Multiple-imputation estimates		Imputations	= **5**
Multinomial logistic regression		Number of obs	= **179**
		Average RVI	= **0.0307**
		Largest FMI	= **0.0725**
DF adjustment: **Large sample**		DF: min	= **810.60**
		avg	= **3,720.08**
		max	= **8,291.57**
Model F test: **Equal FMI**		F(**2, 1706.6**)	= **0.19**
Within VCE type: **OIM**		Prob > F	= **0.8246**

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw3tert	.0693161	.2502716	0.28	0.782	-.4215827	.5602149
_cons	-1.539564	.5488341	-2.81	0.005	-2.616868	-.4622609
diabetes						
LnNFLw3tert	.1822392	.3052293	0.60	0.550	-.4160865	.7805649
_cons	-2.269889	.6844067	-3.32	0.001	-3.611688	-.9280892

821 . mi estimate: reg w1Glucose LnNFLw3tert if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 177
DF adjustment: Small sample — DF: min = 175.03
avg = 175.03
max = 175.03
Model F test: Equal FMI — F(1, 175.0) = 2.51
Within VCE type: OLS — Prob > F = 0.1147

w1Glucose	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	4.066526	2.564847	1.59	0.115	-.9954821	9.128534
_cons	91.78352	5.526313	16.61	0.000	80.87673	102.6903

822 . mi estimate: reg w1Creatinine LnNFLw3tert if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.2367
Largest FMI = 0.3361
Complete DF = 177
DF adjustment: Small sample — DF: min = 31.99
avg = 40.73
max = 49.47
Model F test: Equal FMI — F(1, 49.5) = 1.46
Within VCE type: OLS — Prob > F = 0.2325

w1Creatinine	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0297871	.0246422	1.21	0.232	-.0197214	.0792955
_cons	.8319155	.0559593	14.87	0.000	.7179287	.9459023

```
823 . mi estimate: reg w1USpecGrav LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0130
                                                Largest FMI       =     0.0159
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     170.57
                                                        avg       =     172.14
                                                        max       =     173.72
Model F test:       Equal FMI                   F(   1,  170.6)   =       0.13
Within VCE type:          OLS                   Prob > F          =     0.7229

------------------------------------------------------------------------------
  w1USpecGrav | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw3tert |  -.0002081   .0005861    -0.36   0.723     -.001365    .0009487
        _cons |   1.019705   .0012567   811.41   0.000     1.017225    1.022186
------------------------------------------------------------------------------

824 . mi estimate: reg w1BUN LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =      13.17
Within VCE type:          OLS                   Prob > F          =     0.0004

------------------------------------------------------------------------------
       w1BUN | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw3tert |   1.350892    .372248     3.63   0.000     .6162197    2.085564
        _cons |   11.05437   .8020591    13.78   0.000     9.471414    12.63732
------------------------------------------------------------------------------

825 . mi estimate: reg w1ALP LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =      13.53
Within VCE type:          OLS                   Prob > F          =     0.0003

------------------------------------------------------------------------------
       w1ALP | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
--------------+---------------------------------------------------------------
  LnNFLw3tert |   6.842394   1.860359     3.68   0.000     3.170772    10.51402
        _cons |   61.56014   4.008396    15.36   0.000     53.64913    69.47115
------------------------------------------------------------------------------
```

```
826 . mi estimate: reg w1UricAcid LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       0.79
Within VCE type:          OLS                   Prob > F          =     0.3743

------------------------------------------------------------------------------
  w1UricAcid | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   .1201408     .13489     0.89   0.374    -.1460793     .386361
       _cons |   5.256479   .2906389    18.09   0.000     4.682871    5.830087
------------------------------------------------------------------------------

827 . mi estimate: reg w1Albumin LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     175.03
                                                        avg       =     175.03
                                                        max       =     175.03
Model F test:       Equal FMI                   F(   1,  175.0)   =       0.28
Within VCE type:          OLS                   Prob > F          =     0.5968

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |  -.0130939   .0247054    -0.53   0.597    -.0618527    .0356649
       _cons |   4.368014   .0532312    82.06   0.000     4.262957    4.473072
------------------------------------------------------------------------------

828 . mi estimate: reg w1EosinPct LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0085
                                                Largest FMI       =     0.0104
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     172.49
                                                        avg       =     173.36
                                                        max       =     174.23
Model F test:       Equal FMI                   F(   1,  172.5)   =       0.58
Within VCE type:          OLS                   Prob > F          =     0.4488

------------------------------------------------------------------------------
  w1EosinPct | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   .1380266   .1818302     0.76   0.449    -.2208721    .4969253
       _cons |   2.473187   .3905519     6.33   0.000     1.702365    3.244009
------------------------------------------------------------------------------
```

```
829 . mi estimate: reg w1TotalD LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0687
                                                Largest FMI       =     0.0738
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     135.21
                                                        avg       =     138.44
                                                        max       =     141.67
Model F test:       Equal FMI                   F(   1,  135.2)   =      10.58
Within VCE type:          OLS                   Prob > F          =     0.0014

------------------------------------------------------------------------------
    w1TotalD | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   3.255732   1.000915     3.25   0.001     1.276257    5.235206
       _cons |   15.84531   2.146835     7.38   0.000     11.60134    20.08928
------------------------------------------------------------------------------

830 . mi estimate: reg w1currdrugs LnNFLw3tert if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0528
                                                Largest FMI       =     0.0432
                                                Complete DF       =        177
DF adjustment:   Small sample                   DF:     min       =     156.26
                                                        avg       =     158.19
                                                        max       =     160.13
Model F test:       Equal FMI                   F(   1,  156.3)   =       0.02
Within VCE type:          OLS                   Prob > F          =     0.8941

------------------------------------------------------------------------------
  w1currdrugs | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |  -.0050329   .0377407    -0.13   0.894    -.0795806    .0695149
       _cons |   .2111549    .081062     2.60   0.010     .0510665    .3712434
------------------------------------------------------------------------------

831 . mi estimate: mlogit w1SRH LnNFLw3tert if sample_final==1, baseoutcome(1)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =   1.19e+70
                                                        avg       =   1.19e+70
                                                        max       =          .
Model F test:       Equal FMI                   F(   2, 9.2e+69)  =       0.10
Within VCE type:          OIM                   Prob > F          =     0.9037

------------------------------------------------------------------------------
       w1SRH | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
1            |  (base outcome)
-------------+----------------------------------------------------------------
2            |
 LnNFLw3tert |  -.0070209   .2478523    -0.03   0.977    -.4928024    .4787606
       _cons |   .5399384    .528995     1.02   0.307    -.4968727     1.57675
-------------+----------------------------------------------------------------
3            |
 LnNFLw3tert |   .0792676   .2428515     0.33   0.744    -.3967126    .5552478
       _cons |   .4819133   .5228215     0.92   0.357    -.5427981    1.506625
------------------------------------------------------------------------------
```

```
832 .
833 .
834 .
835 . mi estimate: reg w1BMI LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       1.36
Within VCE type:          OLS                   Prob > F          =     0.2404
```

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1.152819	.7085638	-1.63	0.106	-2.551475	.2458369
Sex	-1.856988	.9707826	-1.91	0.057	-3.773247	.0592697
w1Age	.0798998	.065188	1.23	0.222	-.0487768	.2085763
Race	-.1613559	.9989334	-0.16	0.872	-2.133182	1.81047
PovStat	.2610068	1.086988	0.24	0.811	-1.884632	2.406646
_cons	30.39261	3.981523	7.63	0.000	22.53336	38.25186

```
836 . mi estimate: mlogit w1dxDiabetes LnNFLw3tert Sex w1Age Race PovStat if sample_final==1,baseoutcome(0)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0234
                                                Largest FMI       =     0.0599
DF adjustment:   Large sample                   DF:     min       =   1,178.61
                                                        avg       =  85,964.15
                                                        max       = 581,091.32
Model F test:       Equal FMI                   F(  10,61951.7)   =       1.37
Within VCE type:          OIM                   Prob > F          =     0.1848
```

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw3tert	-.3062371	.3057108	-1.00	0.317	-.9056377	.2931635
Sex	1.122924	.4305135	2.61	0.009	.279061	1.966787
w1Age	.0513511	.0295408	1.74	0.082	-.0065493	.1092516
Race	-.6016884	.461914	-1.30	0.193	-1.507954	.3045771
PovStat	.2377464	.4809227	0.49	0.621	-.7049255	1.180418
_cons	-4.467216	1.847207	-2.42	0.016	-8.087837	-.8465959
diabetes						
LnNFLw3tert	-.2090672	.3773633	-0.55	0.580	-.9488639	.5307295
Sex	.3627999	.5050759	0.72	0.473	-.6271709	1.352771
w1Age	.0633797	.0361951	1.75	0.080	-.0075632	.1343226
Race	.0343212	.5136469	0.07	0.947	-.9724482	1.041091
PovStat	.0186583	.5910995	0.03	0.975	-1.139878	1.177194
_cons	-5.167642	2.226772	-2.32	0.020	-9.532058	-.8032251

```
837 . mi estimate: reg w1Glucose LnNFLw3tert Sex  w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       1.65
Within VCE type:          OLS                   Prob > F          =     0.1494

------------------------------------------------------------------------------
   w1Glucose | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   2.050338   3.083506     0.66   0.507     -4.03629    8.136966
         Sex |     7.6708   4.224622     1.82   0.071    -.6683122    16.00991
       w1Age |   .2013791    .283683     0.71   0.479    -.3585916    .7613499
        Race |  -6.246061   4.347127    -1.44   0.153    -14.82699    2.334868
     PovStat |   2.336708   4.730319     0.49   0.622    -7.000616    11.67403
       _cons |   80.84967   17.32667     4.67   0.000     46.64802    115.0513
------------------------------------------------------------------------------

838 . mi estimate: reg w1Creatinine LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.4026
                                                Largest FMI       =     0.6221
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =      10.80
                                                        avg       =      54.03
                                                        max       =     140.91
Model F test:       Equal FMI                   F(   5,   77.5)   =       7.38
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
w1Creatinine | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   .0251321     .03201     0.79   0.445    -.0431385    .0934027
         Sex |   .2175255   .0366453     5.94   0.000     .1436591    .2913919
       w1Age |   .0005892   .0032326     0.18   0.859    -.0065422    .0077207
        Race |   .0486141   .0348549     1.39   0.166    -.0205428    .1177709
     PovStat |  -.0046486   .0367397    -0.13   0.899    -.0772809    .0679837
       _cons |   .4357091   .1810215     2.41   0.030     .0487512    .8226671
------------------------------------------------------------------------------

839 . mi estimate: reg w1USpecGrav LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0130
                                                Largest FMI       =     0.0282
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     161.32
                                                        avg       =     166.42
                                                        max       =     168.76
Model F test:       Equal FMI                   F(   5,  170.6)   =       1.73
Within VCE type:          OLS                   Prob > F          =     0.1296
```

w1USpecGrav	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0001382	.0006973	0.20	0.843	-.0012385	.0015148
Sex	.0023245	.0009564	2.43	0.016	.0004363	.0042127
w1Age	-.0000496	.0000641	-0.77	0.440	-.0001762	.0000769
Race	.000122	.0009835	0.12	0.901	-.0018196	.0020635
PovStat	.0014868	.0010785	1.38	0.170	-.0006431	.0036167
_cons	1.015897	.0039355	258.14	0.000	1.008127	1.023668

840 . mi estimate: reg w1BUN LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 173
DF adjustment: Small sample — DF: min = 171.03
avg = 171.03
max = 171.03
Model F test: Equal FMI — F(5, 171.0) = 7.70
Within VCE type: OLS — Prob > F = 0.0000

w1BUN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.4716711	.4263772	1.11	0.270	-.3699681	1.31331
Sex	.8816155	.584167	1.51	0.133	-.27149	2.034721
w1Age	.0996502	.0392268	2.54	0.012	.0222192	.1770811
Race	-2.218572	.6011067	-3.69	0.000	-3.405115	-1.032029
PovStat	.141791	.6540932	0.22	0.829	-1.149344	1.432926
_cons	9.723313	2.395876	4.06	0.000	4.994019	14.45261

841 . mi estimate: reg w1ALP LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 173
DF adjustment: Small sample — DF: min = 171.03
avg = 171.03
max = 171.03
Model F test: Equal FMI — F(5, 171.0) = 3.91
Within VCE type: OLS — Prob > F = 0.0022

w1ALP	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	5.737581	2.235402	2.57	0.011	1.325052	10.15011
Sex	-6.645158	3.062659	-2.17	0.031	-12.69064	-.5996801
w1Age	.2159653	.2056573	1.05	0.295	-.1899881	.6219186
Race	.5615058	3.15147	0.18	0.859	-5.659279	6.78229
PovStat	-.6257255	3.429267	-0.18	0.855	-7.394861	6.143411
_cons	63.09362	12.56105	5.02	0.000	38.29897	87.88826

```
842 . mi estimate: reg w1UricAcid LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       9.20
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
  w1UricAcid | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |  -.1734299   .1468126    -1.18   0.239    -.4632279    .1163681
         Sex |   1.143435   .2011437     5.68   0.000     .7463914    1.540479
       w1Age |   .0466292   .0135068     3.45   0.001     .0199677    .0732907
        Race |   .1351217   .2069765     0.65   0.515    -.2734356     .543679
     PovStat |     .14458   .2252211     0.64   0.522    -.2999909     .589151
       _cons |   1.580057   .8249616     1.92   0.057    -.0483608    3.208474
------------------------------------------------------------------------------

843 . mi estimate: reg w1Albumin LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     171.03
                                                        avg       =     171.03
                                                        max       =     171.03
Model F test:       Equal FMI                   F(   5,  171.0)   =       2.86
Within VCE type:          OLS                   Prob > F          =     0.0164

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |  -.0051253   .0290336    -0.18   0.860    -.0624357    .0521851
         Sex |   .1318051   .0397781     3.31   0.001     .0532858    .2103244
       w1Age |  -.0030966   .0026711    -1.16   0.248    -.0083692     .002176
        Race |  -.0531886   .0409316    -1.30   0.196    -.1339848    .0276075
     PovStat |  -.0167382   .0445397    -0.38   0.708    -.1046564      .07118
       _cons |   4.406431   .1631441    27.01   0.000     4.084396    4.728466
------------------------------------------------------------------------------

844 . mi estimate: reg w1EosinPct LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0065
                                                Largest FMI       =     0.0174
                                                Complete DF       =        173
DF adjustment:   Small sample                   DF:     min       =     166.15
                                                        avg       =     168.70
                                                        max       =     170.62
Model F test:       Equal FMI                   F(   5,  170.9)   =       1.65
Within VCE type:          OLS                   Prob > F          =     0.1503
```

w1EosinPct	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.1519866	.2181375	0.70	0.487	-.2786921	.5826653
Sex	.4859418	.297379	1.63	0.104	-.1011025	1.072986
w1Age	-.0160703	.0200032	-0.80	0.423	-.0555596	.023419
Race	-.6670965	.3052552	-2.19	0.030	-1.26966	-.0645334
PovStat	.0914418	.3326568	0.27	0.784	-.5652294	.748113
_cons	3.332449	1.223489	2.72	0.007	.9170057	5.747893

845 . mi estimate: reg w1TotalD LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.2077
Largest FMI = 0.3556
Complete DF = 173
DF adjustment: Small sample — DF: min = 29.15
avg = 81.92
max = 133.57
Model F test: Equal FMI — F(5, 115.7) = 12.63
Within VCE type: OLS — Prob > F = 0.0000

w1TotalD	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	1.828835	1.104365	1.66	0.102	-.3726305	4.0303
Sex	.7677538	1.676712	0.46	0.650	-2.660737	4.196245
w1Age	.0034502	.1030058	0.03	0.973	-.2024395	.2093398
Race	-10.29591	1.567373	-6.57	0.000	-13.42435	-7.167458
PovStat	-3.219516	1.604123	-2.01	0.047	-6.392284	-.0467471
_cons	36.19455	5.902063	6.13	0.000	24.5158	47.87329

846 . mi estimate: reg w1currdrugs LnNFLw3tert Sex w1Age Race PovStat if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0835
Largest FMI = 0.1126
Complete DF = 173
DF adjustment: Small sample — DF: min = 106.67
avg = 128.62
max = 168.04
Model F test: Equal FMI — F(5, 157.0) = 1.55
Within VCE type: OLS — Prob > F = 0.1778

w1currdrugs	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0418043	.0443125	0.94	0.347	-.0456766	.1292852
Sex	-.0497248	.0633277	-0.79	0.434	-.175141	.0756914
w1Age	-.0055999	.0042651	-1.31	0.192	-.0140496	.0028498
Race	.1443378	.0639354	2.26	0.025	.0179568	.2707187
PovStat	-.0826043	.0714889	-1.16	0.250	-.2243276	.0591191
_cons	.3615382	.2584327	1.40	0.164	-.1499814	.8730578

```
847 . mi estimate: mlogit w1SRH LnNFLw3tert Sex w1Age Race PovStat if sample_final==1, baseoutcome(1)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
DF adjustment:   Large sample                   DF:     min       =          .
                                                        avg       =          .
                                                        max       =          .
Model F test:       Equal FMI                   F(  10,      .)   =       0.63
Within VCE type:          OIM                   Prob > F          =     0.7875
```

w1SRH	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
1	(base outcome)					
2						
LnNFLw3tert	-.2010589	.3035122	-0.66	0.508	-.7959318	.393814
Sex	.3286606	.4219352	0.78	0.436	-.4983172	1.155638
w1Age	.0212292	.0278119	0.76	0.445	-.0332812	.0757395
Race	-.3179233	.424637	-0.75	0.454	-1.150196	.5143499
PovStat	-.1744428	.4426448	-0.39	0.694	-1.042011	.6931251
_cons	.1491407	1.68413	0.09	0.929	-3.151693	3.449975
3						
LnNFLw3tert	-.0525832	.2990172	-0.18	0.860	-.638646	.5334797
Sex	.5159207	.4131895	1.25	0.212	-.2939159	1.325757
w1Age	.0100369	.0272489	0.37	0.713	-.0433701	.0634438
Race	-.0803178	.4168229	-0.19	0.847	-.8972756	.73664
PovStat	-.6594527	.4476085	-1.47	0.141	-1.536749	.2178438
_cons	.5214044	1.649989	0.32	0.752	-2.712515	3.755324

```
848 .
849 . **Further adjusted for ICV_volM2**
850 .
851 .
852 . mi estimate: reg w1BMI LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       1.23
Within VCE type:          OLS                   Prob > F          =     0.2921
```

w1BMI	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1.143023	.7095163	-1.61	0.109	-2.543618	.257572
Sex	-2.523298	1.302052	-1.94	0.054	-5.093567	.0469703
w1Age	.0816655	.0653055	1.25	0.213	-.0472484	.2105794
Race	.1942087	1.101816	0.18	0.860	-1.980792	2.369209
PovStat	.3103265	1.090162	0.28	0.776	-1.841667	2.46232
ICV_volM2	3.70e-06	4.81e-06	0.77	0.443	-5.80e-06	.0000132
_cons	25.72778	7.258391	3.54	0.001	11.39962	40.05595

```
853 . mi estimate: mlogit w1dxDiabetes LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1,baseoutcome(0)

Multiple-imputation estimates                   Imputations       =          5
Multinomial logistic regression                 Number of obs     =        179
                                                Average RVI       =     0.0267
                                                Largest FMI       =     0.0384
DF adjustment:   Large sample                   DF:     min       =   2,813.48
                                                        avg       = 383,911.06
                                                        max       = 4279149.43
Model F test:       Equal FMI                   F(  12,80299.1)   =       1.22
Within VCE type:          OIM                   Prob > F          =     0.2643
```

w1dxDiabetes	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
no	(base outcome)					
pre_diabetes						
LnNFLw3tert	-.3098107	.3088022	-1.00	0.316	-.9152627	.2956414
Sex	.7839826	.5672103	1.38	0.167	-.3279098	1.895875
w1Age	.0528917	.0299523	1.77	0.077	-.0058151	.1115985
Race	-.4186702	.4999124	-0.84	0.402	-1.398902	.5615617
PovStat	.2612973	.4836744	0.54	0.589	-.6867892	1.209384
ICV_volM2	1.83e-06	1.98e-06	0.93	0.354	-2.04e-06	5.70e-06
_cons	-6.790287	3.120315	-2.18	0.030	-12.90601	-.6745684
diabetes						
LnNFLw3tert	-.2135074	.3791329	-0.56	0.573	-.9567346	.5297198
Sex	.1719953	.67664	0.25	0.799	-1.154735	1.498725
w1Age	.064327	.0364321	1.77	0.077	-.0070796	.1357337
Race	.1343867	.5638001	0.24	0.812	-.9706415	1.239415
PovStat	.0324015	.5928647	0.05	0.956	-1.129597	1.1944
ICV_volM2	1.08e-06	2.48e-06	0.43	0.664	-3.78e-06	5.94e-06
_cons	-6.531911	3.857266	-1.69	0.090	-14.09233	1.028506

```
854 . mi estimate: reg w1Glucose LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       1.43
Within VCE type:          OLS                   Prob > F          =     0.2043
```

w1Glucose	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	2.084706	3.089509	0.67	0.501	-4.014027	8.183439
Sex	5.333176	5.669638	0.94	0.348	-5.858768	16.52512
w1Age	.2075738	.2843653	0.73	0.466	-.3537672	.7689149
Race	-4.998629	4.797735	-1.04	0.299	-14.46942	4.472167
PovStat	2.509737	4.746985	0.53	0.598	-6.860878	11.88035
ICV_volM2	.000013	.000021	0.62	0.536	-.0000284	.0000544
_cons	64.48399	31.60585	2.04	0.043	2.093609	126.8744

```
855 . mi estimate: reg w1Creatinine LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.4064
                                                Largest FMI       =     0.6127
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =      11.12
                                                        avg       =      54.91
                                                        max       =     143.04
Model F test:       Equal FMI                   F(   6,   87.6)   =       6.28
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
w1Creatinine | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
  LnNFLw3tert |   .0247208   .0321825     0.77   0.455    -.0440691    .0935106
          Sex |   .2455026   .0522646     4.70   0.000     .1382675    .3527376
        w1Age |   .0005151   .0031992     0.16   0.875    -.0065169    .0075471
         Race |   .0336846   .0385161     0.87   0.384    -.0427825    .1101517
      PovStat |  -.0067195   .0366974    -0.18   0.855    -.0792588    .0658199
    ICV_volM2 |  -1.55e-07   1.88e-07    -0.83   0.414    -5.38e-07    2.27e-07
        _cons |   .6315765   .2638931     2.39   0.020     .1039482    1.159205
------------------------------------------------------------------------------

856 . mi estimate: reg w1USpecGrav LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0117
                                                Largest FMI       =     0.0292
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     159.88
                                                        avg       =     166.64
                                                        max       =     169.47
Model F test:       Equal FMI                   F(   6,  169.7)   =       1.48
Within VCE type:          OLS                   Prob > F          =     0.1864

------------------------------------------------------------------------------
w1USpecGrav | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
  LnNFLw3tert |   .0001446   .0006989     0.21   0.836    -.0012353    .0015245
          Sex |   .0018864   .0012772     1.48   0.142    -.0006348    .0044076
        w1Age |  -.0000485   .0000643    -0.75   0.452    -.0001754    .0000784
         Race |   .0003557   .0010833     0.33   0.743    -.0017829    .0024944
      PovStat |   .0015192   .0010833     1.40   0.163    -.0006201    .0036585
    ICV_volM2 |   2.43e-09   4.73e-09     0.52   0.607    -6.89e-09    1.18e-08
        _cons |    1.01283   .0071733   141.19   0.000      .998667    1.026994
------------------------------------------------------------------------------

857 . mi estimate: reg w1BUN LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       6.76
Within VCE type:          OLS                   Prob > F          =     0.0000
```

w1BUN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.461317	.425417	1.08	0.280	-.3784621	1.301096
Sex	1.585879	.7806939	2.03	0.044	.0447781	3.126979
w1Age	.0977839	.0391563	2.50	0.013	.0204887	.175079
Race	-2.59439	.6606352	-3.93	0.000	-3.898493	-1.290287
PovStat	.089662	.6536471	0.14	0.891	-1.200646	1.37997
ICV_volM2	-3.91e-06	2.89e-06	-1.36	0.177	-9.61e-06	1.78e-06
_cons	14.65385	4.35204	3.37	0.001	6.062866	23.24484

858 . mi estimate: reg w1ALP LnNFLw1tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 172
DF adjustment: Small sample — DF: min = 170.03
avg = 170.03
max = 170.03
Model F test: Equal FMI — F(6, 170.0) = 2.37
Within VCE type: OLS — Prob > F = 0.0316

w1ALP	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1tert	2.593773	2.243842	1.16	0.249	-1.835603	7.023149
Sex	-8.088366	4.169925	-1.94	0.054	-16.31986	.143125
w1Age	.3845807	.2044127	1.88	0.062	-.0189328	.7880941
Race	.6084525	3.50845	0.17	0.863	-6.317277	7.534182
PovStat	.4396118	3.504372	0.13	0.900	-6.478067	7.357291
ICV_volM2	9.41e-06	.0000154	0.61	0.543	-.000021	.0000399
_cons	49.33129	23.26173	2.12	0.035	3.412319	95.25027

859 . mi estimate: reg w1UricAcid LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 172
DF adjustment: Small sample — DF: min = 170.03
avg = 170.03
max = 170.03
Model F test: Equal FMI — F(6, 170.0) = 8.93
Within VCE type: OLS — Prob > F = 0.0000

w1UricAcid	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-.179888	.1446857	-1.24	0.215	-.4654995	.1057235
Sex	1.582703	.2655165	5.96	0.000	1.05857	2.106836
w1Age	.0454652	.0133172	3.41	0.001	.0191768	.0717535
Race	-.0992859	.2246841	-0.44	0.659	-.5428155	.3442436
PovStat	.1120658	.2223074	0.50	0.615	-.3267722	.5509038
ICV_volM2	-2.44e-06	9.82e-07	-2.49	0.014	-4.38e-06	-5.03e-07
_cons	4.655366	1.480142	3.15	0.002	1.733544	7.577187

```
860 . mi estimate: reg w1Albumin LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     170.03
                                                        avg       =     170.03
                                                        max       =     170.03
Model F test:       Equal FMI                   F(   6,  170.0)   =       2.40
Within VCE type:          OLS                   Prob > F          =     0.0298

------------------------------------------------------------------------------
   w1Albumin | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |  -.0053309   .0291095    -0.18   0.855    -.0627935    .0521316
         Sex |   .1457921   .0534196     2.73   0.007     .0403411    .2512431
       w1Age |  -.0031337   .0026793    -1.17   0.244    -.0084226    .0021553
        Race |  -.0606526   .0452045    -1.34   0.181    -.1498868    .0285817
     PovStat |  -.0177735   .0447263    -0.40   0.692    -.1060638    .0705169
    ICV_volM2 |  -7.77e-08   1.97e-07    -0.39   0.694    -4.68e-07    3.12e-07
       _cons |   4.504354   .2977917    15.13   0.000     3.916509    5.092199
------------------------------------------------------------------------------

861 . mi estimate: reg w1EosinPct LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.0058
                                                Largest FMI       =     0.0171
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =     165.30
                                                        avg       =     168.33
                                                        max       =     169.81
Model F test:       Equal FMI                   F(   6,  170.0)   =       1.39
Within VCE type:          OLS                   Prob > F          =     0.2220

------------------------------------------------------------------------------
  w1EosinPct | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
 LnNFLw3tert |   .1505687   .2186906     0.69   0.492    -.2812183    .5823557
         Sex |   .5823846   .3982272     1.46   0.145     -.203729    1.368498
       w1Age |  -.0163259   .0200682    -0.81   0.417    -.0559452    .0232935
        Race |  -.7185615   .3373681    -2.13   0.035     -1.38455   -.0525728
     PovStat |   .0843032   .3341221     0.25   0.801    -.5752904    .7438968
    ICV_volM2 |  -5.36e-07   1.47e-06    -0.36   0.716    -3.44e-06    2.37e-06
       _cons |   4.007644    2.22907     1.80   0.074    -.3929908     8.40828
------------------------------------------------------------------------------

862 . mi estimate: reg w1TotalD LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        179
                                                Average RVI       =     0.1900
                                                Largest FMI       =     0.2038
                                                Complete DF       =        172
DF adjustment:   Small sample                   DF:     min       =      62.21
                                                        avg       =      94.57
                                                        max       =     132.30
Model F test:       Equal FMI                   F(   6,  129.8)   =      10.84
Within VCE type:          OLS                   Prob > F          =     0.0000
```

w1TotalD	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	1.845265	1.105538	1.67	0.099	-.3588785	4.049409
Sex	-.3498461	2.040358	-0.17	0.864	-4.422211	3.722519
w1Age	.0064118	.1030852	0.06	0.951	-.1996391	.2124627
Race	-9.699518	1.680471	-5.77	0.000	-13.03761	-6.361428
PovStat	-3.136792	1.608185	-1.95	0.053	-6.317872	.0442887
ICV_volM2	6.21e-06	7.13e-06	0.87	0.386	-7.90e-06	.0000203
_cons	28.37024	10.87756	2.61	0.010	6.816334	49.92415

863 . mi estimate: reg w1currdrugs LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0724
Largest FMI = 0.1142
Complete DF = 172
DF adjustment: Small sample — DF: min = 105.26
avg = 138.30
max = 168.34
Model F test: Equal FMI — F(6, 161.8) = 1.33
Within VCE type: OLS — Prob > F = 0.2445

w1currdrugs	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0414345	.0444155	0.93	0.352	-.0462533	.1291224
Sex	-.0245748	.0842792	-0.29	0.771	-.1913305	.1421809
w1Age	-.0056665	.0042794	-1.32	0.188	-.0141455	.0028124
Race	.1309169	.0706377	1.85	0.066	-.0087254	.2705592
PovStat	-.0844658	.0718316	-1.18	0.242	-.2268905	.0579589
ICV_volM2	-1.40e-07	3.01e-07	-0.46	0.643	-7.33e-07	4.54e-07
_cons	.5376134	.4639353	1.16	0.248	-.3793138	1.454541

864 . mi estimate: mlogit w1SRH LnNFLw3tert Sex w1Age Race PovStat ICV_volM2 if sample_final==1, baseoutcome(1)

Multiple-imputation estimates — Imputations = 5
Multinomial logistic regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
DF adjustment: Large sample — DF: min = 1.39e+65
avg = 1.39e+65
max = .
Model F test: Equal FMI — F(12, 4.5e+67) = 0.65
Within VCE type: OIM — Prob > F = 0.7974

w1SRH	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
1	(base outcome)					
2						
LnNFLw3tert	-.1928613	.3011346	-0.64	0.522	-.7830743	.3973518
Sex	.1516953	.5593689	0.27	0.786	-.9446477	1.248038
w1Age	.0215107	.0276063	0.78	0.436	-.0325967	.0756182
Race	-.2285785	.4641728	-0.49	0.622	-1.138341	.6811835
PovStat	-.1610227	.4435801	-0.36	0.717	-1.030424	.7083784
ICV_volM2	1.03e-06	2.12e-06	0.49	0.626	-3.12e-06	5.18e-06
_cons	-1.141928	3.156689	-0.36	0.718	-7.328924	5.045069
3						
LnNFLw3tert	-.0408933	.2992741	-0.14	0.891	-.6274598	.5456733

Sex	.064075	.5506428	0.12	0.907	-1.015165	1.143315
w1Age	.0108376	.027252	0.40	0.691	-.0425753	.0642506
Race	.162515	.4606211	0.35	0.724	-.7402858	1.065316
PovStat	-.6336406	.4502966	-1.41	0.159	-1.516206	.2489245
ICV_volM2	2.57e-06	2.10e-06	1.22	0.221	-1.54e-06	6.68e-06
_cons	-2.696733	3.106276	-0.87	0.385	-8.784922	3.391455

```
865 .
866 .
867 .
868 .
869 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

870 .
871 . reg LnNFLw1 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 119.18
Model	19.9510436	1	19.9510436	Prob > F	= 0.0000
Residual	29.6304596	177	.167403726	R-squared	= 0.4024
				Adj R-squared	= 0.3990
Total	49.5815032	178	.278547771	Root MSE	= .40915

LnNFLw1	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.4094676	.0375076	10.92	0.000	.3354479	.4834872
_cons	1.194758	.0808152	14.78	0.000	1.035273	1.354244

```
872 .
873 . reg LnNFLw3 LnNFLw3tert if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 382.99
Model	40.7370603	1	40.7370603	Prob > F	= 0.0000
Residual	18.8269153	177	.106366753	R-squared	= 0.6839
				Adj R-squared	= 0.6821
Total	59.5639756	178	.334629076	Root MSE	= .32614

LnNFLw3	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.585102	.0298978	19.57	0.000	.5260999	.6441041
_cons	1.049705	.064419	16.29	0.000	.922577	1.176833

```
874 .
875 . reg bayes1LnNFL LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 19.94
Model	.099630103	1	.099630103	Prob > F	= 0.0000
Residual	.88421697	177	.004995576	R-squared	= 0.1013
				Adj R-squared	= 0.0962
Total	.983847073	178	.005527231	Root MSE	= .07068

bayes1LnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0289356	.0064793	4.47	0.000	.0161489	.0417222
_cons	-.0197827	.0139606	-1.42	0.158	-.0473333	.0077679

```
876 .
877 . reg deltaLnNFL LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	14.75
Model	.175675485	1	.175675485	Prob > F	=	0.0002
Residual	2.10775473	177	.011908219	R-squared	=	0.0769
				Adj R-squared	=	0.0717
Total	2.28343021	178	.01282826	Root MSE	=	.10912

deltaLnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0384231	.0100037	3.84	0.000	.0186812	.0581649
_cons	-.0322429	.0215543	-1.50	0.136	-.0747794	.0102936

```
878 .
879 . save, replace
file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved
880 .
881 . reg ICV_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.78
Model	1.5677e+10	1	1.5677e+10	Prob > F	=	0.3797
Residual	3.5782e+12	177	2.0216e+10	R-squared	=	0.0044
				Adj R-squared	=	-0.0013
Total	3.5939e+12	178	2.0190e+10	Root MSE	=	1.4e+05

ICV_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	11478.04	13034.16	0.88	0.380	-14244.32	37200.39
_cons	1316421	28083.88	46.87	0.000	1260999	1371843

```
882 .
883 .
884 . reg TOTALBRAIN LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.24
Model	3.3006e+09	1	3.3006e+09	Prob > F	=	0.6280
Residual	2.4796e+12	177	1.4009e+10	R-squared	=	0.0013
				Adj R-squared	=	-0.0043
Total	2.4829e+12	178	1.3949e+10	Root MSE	=	1.2e+05

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-5266.636	10850.32	-0.49	0.628	-26679.27	16146
_cons	1153392	23378.49	49.34	0.000	1107256	1199528

```
885 . reg GM LnNFLw3tert if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	2.61
Model	1.1003e+10	1	1.1003e+10	Prob > F	=	0.1080
Residual	7.4624e+11	177	4.2161e+09	R-squared	=	0.0145
				Adj R-squared	=	0.0090
Total	7.5724e+11	178	4.2542e+09	Root MSE	=	64931

GM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-9615.849	5952.367	-1.62	0.108	-21362.59	2130.892
_cons	661590.1	12825.19	51.59	0.000	636280.2	686900.1

```
886 . reg WM LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.00
Model	10453029.2	1	10453029.2	Prob > F	=	0.9514
Residual	4.9763e+11	177	2.8115e+09	R-squared	=	0.0000
				Adj R-squared	=	-0.0056
Total	4.9764e+11	178	2.7958e+09	Root MSE	=	53023

WM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	296.3861	4860.769	0.06	0.951	-9296.134	9888.906
_cons	456675.9	10473.19	43.60	0.000	436007.5	477344.3

```
887 .
888 .
889 . reg FRONTAL_GM_L_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	4.21
Model	422031348	1	422031348	Prob > F	=	0.0417
Residual	1.7752e+10	177	100296554	R-squared	=	0.0232
				Adj R-squared	=	0.0177
Total	1.8175e+10	178	102104052	Root MSE	=	10015

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1883.255	918.0783	-2.05	0.042	-3695.043	-71.46652
_cons	96970.3	1978.125	49.02	0.000	93066.56	100874

```
890 . reg FRONTAL_WM_L_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.00
Model	38603.0933	1	38603.0933	Prob > F	=	0.9849
Residual	1.9007e+10	177	107382384	R-squared	=	0.0000
				Adj R-squared	=	-0.0056
Total	1.9007e+10	178	106779329	Root MSE	=	10363

F~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-18.01141	949.9554	-0.02	0.985	-1892.708	1856.685
_cons	85361.75	2046.809	41.70	0.000	81322.46	89401.04

891 . reg TEMPORAL_GM_L_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.46
Model	17401992.1	1	17401992.1	Prob > F	= 0.4984
Residual	6.6940e+09	177	37819238.1	R-squared	= 0.0026
				Adj R-squared	= -0.0030
Total	6.7114e+09	178	37704534.4	Root MSE	= 6149.7

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-382.4161	563.7585	-0.68	0.498	-1494.969	730.1371
_cons	51052.08	1214.695	42.03	0.000	48654.93	53449.22

892 . reg TEMPORAL_WM_L_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.11
Model	4060958.03	1	4060958.03	Prob > F	= 0.7428
Residual	6.6535e+09	177	37590312.9	R-squared	= 0.0006
				Adj R-squared	= -0.0050
Total	6.6575e+09	178	37401945.8	Root MSE	= 6131.1

T~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	184.7358	562.0497	0.33	0.743	-924.4452	1293.917
_cons	48998.03	1211.013	40.46	0.000	46608.15	51387.92

893 . reg PARIETAL_GM_L_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 3.62
Model	114912633	1	114912633	Prob > F	= 0.0586
Residual	5.6154e+09	177	31725484.6	R-squared	= 0.0201
				Adj R-squared	= 0.0145
Total	5.7303e+09	178	32192828.1	Root MSE	= 5632.5

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-982.6992	516.346	-1.90	0.059	-2001.686	36.2876
_cons	48108.95	1112.538	43.24	0.000	45913.41	50304.5

```
894 . reg PARIETAL_WM_L_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.26
Model	8198836.04	1	8198836.04	Prob > F	=	0.6112
Residual	5.5942e+09	177	31605924.6	R-squared	=	0.0015
				Adj R-squared	=	-0.0042
Total	5.6024e+09	178	31474424.1	Root MSE	=	5621.9

P~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	262.49	515.3722	0.51	0.611	-754.5749	1279.555
_cons	43373.69	1110.44	39.06	0.000	41182.28	45565.09

```
895 . reg OCCIPITAL_GM_L_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	1.90
Model	51503171.4	1	51503171.4	Prob > F	=	0.1700
Residual	4.8014e+09	177	27126283.1	R-squared	=	0.0106
				Adj R-squared	=	0.0050
Total	4.8529e+09	178	27263231.9	Root MSE	=	5208.3

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-657.8906	477.4544	-1.38	0.170	-1600.126	284.3451
_cons	39387.16	1028.741	38.29	0.000	37356.99	41417.34

```
896 . reg OCCIPITAL_WM_L_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.20
Model	1780468.54	1	1780468.54	Prob > F	=	0.6531
Residual	1.5550e+09	177	8785287.03	R-squared	=	0.0011
				Adj R-squared	=	-0.0045
Total	1.5568e+09	178	8745934.11	Root MSE	=	2964

O~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-122.3218	271.7157	-0.45	0.653	-658.5411	413.8975
_cons	21271.93	585.4485	36.33	0.000	20116.57	22427.29

```
897 .
898 .
899 . reg FRONTAL_GM_R_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	4.01
Model	419641759	1	419641759	Prob > F	=	0.0468
Residual	1.8524e+10	177	104652625	R-squared	=	0.0222
				Adj R-squared	=	0.0166
Total	1.8943e+10	178	106422227	Root MSE	=	10230

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1877.916	937.8033	-2.00	0.047	-3728.63	-27.20081
_cons	97045.38	2020.625	48.03	0.000	93057.77	101033

900 . reg FRONTAL_WM_R_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.00
Model	10468.1566	1	10468.1566	Prob > F	= 0.9924
Residual	2.0328e+10	177	114849361	R-squared	= 0.0000
				Adj R-squared	= -0.0056
Total	2.0328e+10	178	114204199	Root MSE	= 10717

F~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	9.37933	982.4286	0.01	0.992	-1929.402	1948.16
_cons	87533.26	2116.776	41.35	0.000	83355.89	91710.62

901 . reg TEMPORAL_GM_R_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.85
Model	30533562.3	1	30533562.3	Prob > F	= 0.3590
Residual	6.3906e+09	177	36104862.8	R-squared	= 0.0048
				Adj R-squared	= -0.0009
Total	6.4211e+09	178	36073563.3	Root MSE	= 6008.7

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-506.5537	550.8325	-0.92	0.359	-1593.598	580.4907
_cons	52231.19	1186.844	44.01	0.000	49889	54573.37

902 . reg TEMPORAL_WM_R_volM2 LnNFLw3tert if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 0.00
Model	4456.31271	1	4456.31271	Prob > F	= 0.9912
Residual	6.5242e+09	177	36859710.6	R-squared	= 0.0000
				Adj R-squared	= -0.0056
Total	6.5242e+09	178	36652658.6	Root MSE	= 6071.2

T~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-6.119621	556.5609	-0.01	0.991	-1104.469	1092.229
_cons	49925.15	1199.186	41.63	0.000	47558.61	52291.7

```
903 . reg PARIETAL_GM_R_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	3.93
Model	127795383	1	127795383	Prob > F	=	0.0491
Residual	5.7617e+09	177	32551756.2	R-squared	=	0.0217
				Adj R-squared	=	0.0162
Total	5.8895e+09	178	33086832.8	Root MSE	=	5705.4

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1036.321	523.0268	-1.98	0.049	-2068.492	-4.150026
_cons	48839.6	1126.933	43.34	0.000	46615.65	51063.56

```
904 . reg PARIETAL_WM_R_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.12
Model	3570362.8	1	3570362.8	Prob > F	=	0.7300
Residual	5.2876e+09	177	29873479.1	R-squared	=	0.0007
				Adj R-squared	=	-0.0050
Total	5.2912e+09	178	29725708.8	Root MSE	=	5465.7

P~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	173.2179	501.0483	0.35	0.730	-815.5795	1162.015
_cons	41338.46	1079.577	38.29	0.000	39207.96	43468.96

```
905 . reg OCCIPITAL_GM_R_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.38
Model	11057030.2	1	11057030.2	Prob > F	=	0.5397
Residual	5.1834e+09	177	29284777.3	R-squared	=	0.0021
				Adj R-squared	=	-0.0035
Total	5.1945e+09	178	29182374.2	Root MSE	=	5411.5

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-304.8288	496.0868	-0.61	0.540	-1283.835	674.1773
_cons	39943.39	1068.887	37.37	0.000	37833.99	42052.79

```
906 . reg OCCIPITAL_WM_R_volM2 LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(1, 177)	=	0.32
Model	2744133.76	1	2744133.76	Prob > F	=	0.5734
Residual	1.5264e+09	177	8623531.35	R-squared	=	0.0018
				Adj R-squared	=	-0.0038
Total	1.5291e+09	178	8590501.03	Root MSE	=	2936.6

O~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	151.8586	269.2026	0.56	0.573	-379.4013	683.1184
_cons	20513.03	580.0338	35.37	0.000	19368.36	21657.7

```
907 .
908 .
909 . reg Left_Hippocampus LnNFLw3tert   if sample_final==1
```

Source	SS	df	MS		
Model	179239.088	1	179239.088	Number of obs	= 179
Residual	26290844.8	177	148535.846	F(1, 177)	= 1.21
				Prob > F	= 0.2735
				R-squared	= 0.0068
				Adj R-squared	= 0.0012
Total	26470083.9	178	148708.336	Root MSE	= 385.4

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-38.81084	35.33071	-1.10	0.273	-108.5345	30.9128
_cons	3614.328	76.12483	47.48	0.000	3464.099	3764.557

```
910 . reg Right_Hippocampus LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
Model	82512.4251	1	82512.4251	Number of obs	= 179
Residual	30328714.9	177	171348.672	F(1, 177)	= 0.48
				Prob > F	= 0.4886
				R-squared	= 0.0027
				Adj R-squared	= -0.0029
Total	30411227.3	178	170849.592	Root MSE	= 413.94

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-26.33276	37.94697	-0.69	0.489	-101.2195	48.55396
_cons	3880.264	81.76192	47.46	0.000	3718.91	4041.617

```
911 .
912 . reg Left_Hippocampuspct LnNFLw3tert   if sample_final==1
```

Source	SS	df	MS		
Model	.002675004	1	.002675004	Number of obs	= 179
Residual	.101106581	177	.000571224	F(1, 177)	= 4.68
				Prob > F	= 0.0318
				R-squared	= 0.0258
				Adj R-squared	= 0.0203
Total	.103781585	178	.000583043	Root MSE	= .0239

Left_Hippo~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-.0047413	.002191	-2.16	0.032	-.0090651	-.0004175
_cons	.2745996	.0047208	58.17	0.000	.2652834	.2839159

```
913 . reg Right_Hippocampuspct LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
Model	.00194675	1	.00194675	Number of obs	= 179
Residual	.106417587	177	.000601229	F(1, 177)	= 3.24
				Prob > F	= 0.0737
				R-squared	= 0.0180
				Adj R-squared	= 0.0124
Total	.108364337	178	.000608788	Root MSE	= .02452

Right_Hipp~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-.0040448	.0022478	-1.80	0.074	-.0084807	.0003912
_cons	.2949124	.0048432	60.89	0.000	.2853546	.3044702

```
914 .
915 .
916 . reg LnLesion_Volume LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 3.62
Model	52.5428865	1	52.5428865	Prob > F	= 0.0589
Residual	2572.56845	177	14.534285	R-squared	= 0.0200
				Adj R-squared	= 0.0145
Total	2625.11134	178	14.7478165	Root MSE	= 3.8124

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.664498	.349489	1.90	0.059	-.0252036	1.3542
_cons	4.322966	.7530218	5.74	0.000	2.83691	5.809022

```
917 . reg LnLesion_Volumepct LnNFLw3tert  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(1, 177)	= 3.54
Model	51.2227711	1	51.2227711	Prob > F	= 0.0617
Residual	2563.4829	177	14.4829542	R-squared	= 0.0196
				Adj R-squared	= 0.0141
Total	2614.70567	178	14.6893577	Root MSE	= 3.8056

LnLesion_V~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.6560973	.3488713	1.88	0.062	-.0323854	1.34458
_cons	-5.15728	.7516909	-6.86	0.000	-6.64071	-3.67385

```
918 .
919 .
920 . tab NFLw1w3trackhigh LnNFLw3tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

NFLw1w3tra ckhigh	3 quantiles of LnNFLw3 1	2	3	Total
0	60	41	13	114
	52.63	35.96	11.40	100.00
	100.00	68.33	22.03	63.69
1	0	19	46	65
	0.00	29.23	70.77	100.00
	0.00	31.67	77.97	36.31
Total	60	60	59	179

33.52	**33.52**	**32.96**	**100.00**
100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **79.0333** Pr = **0.000**

```
921 . tab NFLw1w3tracklow LnNFLw3tert if sample_final==1, row col chi
```

Key
frequency *row percentage* *column percentage*

NFLw1w3tracklow	3 quantiles of LnNFLw3			Total
	1	2	3	
0	**4**	**51**	**59**	**114**
	3.51	**44.74**	**51.75**	**100.00**
	6.67	**85.00**	**100.00**	**63.69**
1	**56**	**9**	**0**	**65**
	86.15	**13.85**	**0.00**	**100.00**
	93.33	**15.00**	**0.00**	**36.31**
Total	**60**	**60**	**59**	**179**
	33.52	**33.52**	**32.96**	**100.00**
	100.00	**100.00**	**100.00**	**100.00**

Pearson chi2(**2**) = **129.7782** Pr = **0.000**

```
922 .
923 . ****
924 .
925 . reg LnNFLw1 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
Model	**24.579762**	**5**	**4.91595239**	Number of obs	= **179**
Residual	**25.0017412**	**173**	**.144518735**	F(5, 173)	= **34.02**
				Prob > F	= **0.0000**
Total	**49.5815032**	**178**	**.278547771**	R-squared	= **0.4957**
				Adj R-squared	= **0.4812**
				Root MSE	= **.38016**

LnNFLw1	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	**.2823854**	**.0420988**	**6.71**	**0.000**	**.1992919**	**.3654789**
w1Age	**.0177663**	**.0038731**	**4.59**	**0.000**	**.0101216**	**.0254109**
Sex	**.0475959**	**.0576784**	**0.83**	**0.410**	**-.066248**	**.1614399**
Race	**-.1231064**	**.059351**	**-2.07**	**0.040**	**-.2402516**	**-.0059612**
PovStat	**-.0460772**	**.0645826**	**-0.71**	**0.477**	**-.1735485**	**.0813942**
_cons	**.7654539**	**.2365595**	**3.24**	**0.001**	**.2985394**	**1.232368**

```
926 .
927 . reg LnNFLw3 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	78.34
Model	41.315619	5	8.26312381	Prob > F	=	0.0000
Residual	18.2483565	173	.10548183	R-squared	=	0.6936
				Adj R-squared	=	0.6848
Total	59.5639756	178	.334629076	Root MSE	=	.32478

LnNFLw3	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.5783089	.0359664	16.08	0.000	.5073194	.6492983
w1Age	-.000118	.0033089	-0.04	0.972	-.006649	.0064131
Sex	.1054483	.0492765	2.14	0.034	.0081877	.2027089
Race	-.0529196	.0507054	-1.04	0.298	-.1530005	.0471613
PovStat	.0244895	.055175	0.44	0.658	-.0844134	.1333924
_cons	.9589572	.2021004	4.74	0.000	.5600572	1.357857

```
928 .
929 . reg bayes1LnNFL LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	8.47
Model	.19345484	5	.038690968	Prob > F	=	0.0000
Residual	.790392233	173	.004568741	R-squared	=	0.1966
				Adj R-squared	=	0.1734
Total	.983847073	178	.005527231	Root MSE	=	.06759

bayes1LnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.0467287	.0074853	6.24	0.000	.0319545	.0615029
w1Age	-.00271	.0006886	-3.94	0.000	-.0040692	-.0013508
Sex	.0101816	.0102553	0.99	0.322	-.0100601	.0304233
Race	.0092806	.0105527	0.88	0.380	-.0115481	.0301092
PovStat	.0070009	.0114829	0.61	0.543	-.0156638	.0296655
_cons	.0370989	.0420607	0.88	0.379	-.0459194	.1201171

```
930 .
931 . reg deltaLnNFL LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	7.12
Model	.389815195	5	.077963039	Prob > F	=	0.0000
Residual	1.89361502	173	.010945752	R-squared	=	0.1707
				Adj R-squared	=	0.1467
Total	2.28343021	178	.01282826	Root MSE	=	.10462

deltaLnNFL	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.06627	.0115859	5.72	0.000	.043402	.089138
w1Age	-.0043946	.0010659	-4.12	0.000	-.0064984	-.0022907
Sex	.004825	.0158735	0.30	0.762	-.0265058	.0361557
Race	.0061828	.0163338	0.38	0.706	-.0260565	.0384221
PovStat	.0061999	.0177736	0.35	0.728	-.0288813	.041281
_cons	.0982107	.065103	1.51	0.133	-.0302878	.2267092

```
932 .
933 . save, replace
    file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

934 .
935 . reg ICV_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	35.61
Model	1.8227e+12	5	3.6455e+11	Prob > F	=	0.0000
Residual	1.7711e+12	173	1.0238e+10	R-squared	=	0.5072
				Adj R-squared	=	0.4929
Total	3.5939e+12	178	2.0190e+10	Root MSE	=	1.0e+05

ICV_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-2646.356	11204.98	-0.24	0.814	-24762.43	19469.72
w1Age	-476.9991	1030.86	-0.46	0.644	-2511.682	1557.683
Sex	179999.8	15351.62	11.73	0.000	149699.2	210300.4
Race	-96053.76	15796.79	-6.08	0.000	-127233	-64874.51
PovStat	-13323.43	17189.25	-0.78	0.439	-47251.08	20604.21
_cons	1260177	62962.44	20.01	0.000	1135903	1384450

```
936 .
937 . reg TOTALBRAIN LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	27.47
Model	1.0988e+12	5	2.1976e+11	Prob > F	=	0.0000
Residual	1.3841e+12	173	8.0006e+09	R-squared	=	0.4425
				Adj R-squared	=	0.4264
Total	2.4829e+12	178	1.3949e+10	Root MSE	=	89446

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-6275.283	9905.354	-0.63	0.527	-25826.19	13275.62
w1Age	-2046.536	911.2942	-2.25	0.026	-3845.222	-247.8492
Sex	137390	13571.04	10.12	0.000	110603.9	164176.2
Race	-76565.4	13964.57	-5.48	0.000	-104128.3	-49002.53
PovStat	-12457.54	15195.52	-0.82	0.413	-42450.03	17534.95
_cons	1178911	55659.63	21.18	0.000	1069051	1288770

```
938 . reg GM LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	32.34
Model	3.6584e+11	5	7.3168e+10	Prob > F	=	0.0000
Residual	3.9140e+11	173	2.2625e+09	R-squared	=	0.4831
				Adj R-squared	=	0.4682
Total	7.5724e+11	178	4.2542e+09	Root MSE	=	47565

GM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-7434.451	5267.421	-1.41	0.160	-17831.14	2962.234
w1Age	-1739.726	484.6036	-3.59	0.000	-2696.223	-783.2293
Sex	71257.02	7216.741	9.87	0.000	57012.83	85501.22
Race	-52756.59	7426.012	-7.10	0.000	-67413.84	-38099.34
PovStat	-5761.519	8080.602	-0.71	0.477	-21710.78	10187.74
_cons	719342.7	29598.41	24.30	0.000	660922.2	777763.1

939 . reg WM LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	17.48
Model	1.6700e+11	5	3.3399e+10	Prob > F	=	0.0000
Residual	3.3065e+11	173	1.9113e+09	R-squared	=	0.3356
				Adj R-squared	=	0.3164
Total	4.9764e+11	178	2.7958e+09	Root MSE	=	43718

WM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-9.742637	4841.364	-0.00	0.998	-9565.488	9546.003
w1Age	-718.9754	445.4063	-1.61	0.108	-1598.106	160.1547
Sex	56147.09	6633.013	8.46	0.000	43055.04	69239.14
Race	-21145.25	6825.356	-3.10	0.002	-34616.94	-7673.558
PovStat	-10265.03	7427	-1.38	0.169	-24924.23	4394.171
_cons	453741.9	27204.33	16.68	0.000	400046.7	507437

940 .
941 .
942 . reg FRONTAL_GM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	19.70
Model	6.5943e+09	5	1.3189e+09	Prob > F	=	0.0000
Residual	1.1580e+10	173	66937789.7	R-squared	=	0.3628
				Adj R-squared	=	0.3444
Total	1.8175e+10	178	102104052	Root MSE	=	8181.6

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1108.334	906.0324	-1.22	0.223	-2896.634	679.9671
w1Age	-297.082	83.35512	-3.56	0.000	-461.6059	-132.558
Sex	9429.566	1241.329	7.60	0.000	6979.467	11879.67
Race	-6365.87	1277.325	-4.98	0.000	-8887.017	-3844.724
PovStat	-653.9584	1389.919	-0.47	0.639	-3397.34	2089.423
_cons	105823.4	5091.128	20.79	0.000	95774.7	115872.1

```
943 . reg FRONTAL_WM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	13.90
Model	5.4482e+09	5	1.0896e+09	Prob > F	=	0.0000
Residual	1.3559e+10	173	78373043.4	R-squared	=	0.2866
				Adj R-squared	=	0.2660
Total	1.9007e+10	178	106779329	Root MSE	=	8852.9

F~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	127.0422	980.3731	0.13	0.897	-1807.99	2062.075
w1Age	-150.345	90.19448	-1.67	0.097	-328.3683	27.67832
Sex	10291.99	1343.181	7.66	0.000	7640.853	12943.12
Race	-3036.553	1382.13	-2.20	0.029	-5764.562	-308.544
PovStat	-2008.06	1503.963	-1.34	0.184	-4976.539	960.4182
_cons	84288.22	5508.86	15.30	0.000	73414.99	95161.45

```
944 . reg TEMPORAL_GM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	35.37
Model	3.3925e+09	5	678495500	Prob > F	=	0.0000
Residual	3.3189e+09	173	19184564.3	R-squared	=	0.5055
				Adj R-squared	=	0.4912
Total	6.7114e+09	178	37704534.4	Root MSE	=	4380

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-597.6239	485.0472	-1.23	0.220	-1554.996	359.7483
w1Age	-104.2917	44.62442	-2.34	0.021	-192.3701	-16.21326
Sex	7007.442	664.5491	10.54	0.000	5695.774	8319.11
Race	-5361.495	683.8197	-7.84	0.000	-6711.199	-4011.791
PovStat	-587.8493	744.0972	-0.79	0.431	-2056.527	880.8284
_cons	54671.96	2725.551	20.06	0.000	49292.34	60051.57

```
945 . reg TEMPORAL_WM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	17.88
Model	2.2686e+09	5	453724760	Prob > F	=	0.0000
Residual	4.3889e+09	173	25369494.5	R-squared	=	0.3408
				Adj R-squared	=	0.3217
Total	6.6575e+09	178	37401945.8	Root MSE	=	5036.8

T~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-120.2855	557.7813	-0.22	0.830	-1221.218	980.6472
w1Age	-45.35423	51.31597	-0.88	0.378	-146.6402	55.93176
Sex	6473.811	764.2	8.47	0.000	4965.455	7982.167
Race	-2975.211	786.3602	-3.78	0.000	-4527.306	-1423.116
PovStat	-854.5799	855.6765	-1.00	0.319	-2543.49	834.3299
_cons	47732.14	3134.255	15.23	0.000	41545.84	53918.44

946 . reg PARIETAL_GM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	19.88
Model	2.0910e+09	5	418203042	Prob > F	=	0.0000
Residual	3.6393e+09	173	21036463.6	R-squared	=	0.3649
				Adj R-squared	=	0.3465
Total	5.7303e+09	178	32192828.1	Root MSE	=	4586.6

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-908.797	507.9189	-1.79	0.075	-1911.313	93.71888
w1Age	-128.7599	46.72862	-2.76	0.006	-220.9916	-36.52833
Sex	4568.022	695.885	6.56	0.000	3194.504	5941.54
Race	-4874.341	716.0642	-6.81	0.000	-6287.688	-3460.994
PovStat	-384.1437	779.1841	-0.49	0.623	-1922.075	1153.788
_cons	54894.33	2854.071	19.23	0.000	49261.05	60527.61

947 . reg PARIETAL_WM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	15.85
Model	1.7599e+09	5	351987236	Prob > F	=	0.0000
Residual	3.8425e+09	173	22211048.1	R-squared	=	0.3141
				Adj R-squared	=	0.2943
Total	5.6024e+09	178	31474424.1	Root MSE	=	4712.9

P~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-42.82637	521.9063	-0.08	0.935	-1072.95	987.2974
w1Age	-35.36207	48.01547	-0.74	0.462	-130.1336	59.40948
Sex	5654.514	715.0487	7.91	0.000	4243.171	7065.856
Race	-2657.471	735.7837	-3.61	0.000	-4109.74	-1205.202
PovStat	-842.0079	800.6418	-1.05	0.294	-2422.292	738.2758
_cons	42351.09	2932.668	14.44	0.000	36562.68	48139.51

948 . reg OCCIPITAL_GM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS	Number of obs	=	179
				F(5, 173)	=	21.44
Model	1.8566e+09	5	371318560	Prob > F	=	0.0000
Residual	2.9963e+09	173	17319436.3	R-squared	=	0.3826
				Adj R-squared	=	0.3647
Total	4.8529e+09	178	27263231.9	Root MSE	=	4161.7

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-680.2984	460.8663	-1.48	0.142	-1589.943	229.3462
w1Age	-108.8642	42.39977	-2.57	0.011	-192.5517	-25.17677
Sex	4445.836	631.4195	7.04	0.000	3199.558	5692.113
Race	-4605.553	649.7294	-7.09	0.000	-5887.971	-3323.136
PovStat	-521.0315	707.0019	-0.74	0.462	-1916.492	874.4286
_cons	45391.15	2589.675	17.53	0.000	40279.73	50502.58

```
949 . reg OCCIPITAL_WM_L_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 16.52
Model	503023684	5	100604737	Prob > F	= 0.0000
Residual	1.0538e+09	173	6091055.43	R-squared	= 0.3231
				Adj R-squared	= 0.3036
Total	1.5568e+09	178	8745934.11	Root MSE	= 2468

O~WM_L_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-88.7449	273.3092	-0.32	0.746	-628.1948	450.705
w1Age	-54.51167	25.14449	-2.17	0.032	-104.1412	-4.882189
Sex	2868.7	374.4531	7.66	0.000	2129.616	3607.785
Race	-1622.794	385.3114	-4.21	0.000	-2383.311	-862.2774
PovStat	-487.118	419.276	-1.16	0.247	-1314.673	340.4369
_cons	22590.41	1535.765	14.71	0.000	19559.17	25621.66

```
950 .
951 .
952 . reg FRONTAL_GM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 20.58
Model	7.0648e+09	5	1.4130e+09	Prob > F	= 0.0000
Residual	1.1878e+10	173	68660883.2	R-squared	= 0.3729
				Adj R-squared	= 0.3548
Total	1.8943e+10	178	106422227	Root MSE	= 8286.2

FRONTAL_GM..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1212.975	917.6197	-1.32	0.188	-3024.146	598.1966
w1Age	-278.8387	84.42116	-3.30	0.001	-445.4667	-112.2106
Sex	10202.7	1257.204	8.12	0.000	7721.271	12684.14
Race	-6174.173	1293.66	-4.77	0.000	-8727.563	-3620.783
PovStat	-621.1997	1407.694	-0.44	0.660	-3399.667	2157.267
_cons	103814.1	5156.239	20.13	0.000	93636.82	113991.3

```
953 . reg FRONTAL_WM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 13.09
Model	5.5806e+09	5	1.1161e+09	Prob > F	= 0.0000
Residual	1.4748e+10	173	85246905.7	R-squared	= 0.2745
				Adj R-squared	= 0.2536
Total	2.0328e+10	178	114204199	Root MSE	= 9232.9

F~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	134.1283	1022.462	0.13	0.896	-1883.979	2152.235
w1Age	-143.1545	94.0667	-1.52	0.130	-328.8206	42.51168
Sex	10519.63	1400.846	7.51	0.000	7754.682	13284.58
Race	-2804.222	1441.468	-1.95	0.053	-5649.35	40.90534
PovStat	-1950.096	1568.531	-1.24	0.215	-5046.017	1145.825
_cons	85422.99	5745.366	14.87	0.000	74082.95	96763.03

954 . reg TEMPORAL_GM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 32.82
Model	3.1256e+09	5	625121003	Prob > F	= 0.0000
Residual	3.2955e+09	173	19049070.9	R-squared	= 0.4868
				Adj R-squared	= 0.4719
Total	6.4211e+09	178	36073563.3	Root MSE	= 4364.5

TEMPORAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-751.1583	483.3313	-1.55	0.122	-1705.144	202.8272
w1Age	-88.8169	44.46656	-2.00	0.047	-176.5837	-1.050079
Sex	6833.467	662.1982	10.32	0.000	5526.439	8140.495
Race	-5119.987	681.4006	-7.51	0.000	-6464.916	-3775.058
PovStat	-82.54747	741.4649	-0.11	0.911	-1546.03	1380.935
_cons	54417.73	2715.909	20.04	0.000	49057.15	59778.31

955 . reg TEMPORAL_WM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 17.28
Model	2.1728e+09	5	434551753	Prob > F	= 0.0000
Residual	4.3514e+09	173	25152684.8	R-squared	= 0.3330
				Adj R-squared	= 0.3138
Total	6.5242e+09	178	36652658.6	Root MSE	= 5015.2

T~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-269.7025	555.3928	-0.49	0.628	-1365.921	826.5158
w1Age	-46.30389	51.09622	-0.91	0.366	-147.1561	54.54837
Sex	6425.502	760.9275	8.44	0.000	4923.605	7927.399
Race	-2618.706	782.9929	-3.34	0.001	-4164.155	-1073.257
PovStat	-954.809	852.0123	-1.12	0.264	-2636.487	726.8685
_cons	48319.56	3120.833	15.48	0.000	42159.75	54479.37

956 . reg PARIETAL_GM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 20.79
Model	2.2104e+09	5	442083388	Prob > F	= 0.0000
Residual	3.6790e+09	173	21266123.1	R-squared	= 0.3753
				Adj R-squared	= 0.3573
Total	5.8895e+09	178	33086832.8	Root MSE	= 4611.5

PARIETAL_G..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-1006.549	510.6839	-1.97	0.050	-2014.523	1.42413
w1Age	-120.45	46.983	-2.56	0.011	-213.1837	-27.71628
Sex	4978.064	699.6732	7.11	0.000	3597.069	6359.059
Race	-4779.983	719.9623	-6.64	0.000	-6201.024	-3358.942
PovStat	-263.3543	783.4258	-0.34	0.737	-1809.658	1282.949
_cons	54430.93	2869.608	18.97	0.000	48766.98	60094.88

957 . reg PARIETAL_WM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 16.17
Model	1.6851e+09	5	337010940	Prob > F	= 0.0000
Residual	3.6061e+09	173	20844632.8	R-squared	= 0.3185
				Adj R-squared	= 0.2988
Total	5.2912e+09	178	29725708.8	Root MSE	= 4565.6

P~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-135.8528	505.5978	-0.27	0.788	-1133.787	862.0816
w1Age	-34.03586	46.51508	-0.73	0.465	-125.846	57.77426
Sex	5504.983	692.7049	7.95	0.000	4137.742	6872.224
Race	-2557.445	712.7919	-3.59	0.000	-3964.333	-1150.556
PovStat	-1018.394	775.6233	-1.31	0.191	-2549.297	512.5088
_cons	40566.57	2841.028	14.28	0.000	34959.03	46174.11

958 . reg OCCIPITAL_GM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 28.78
Model	2.3587e+09	5	471736114	Prob > F	= 0.0000
Residual	2.8358e+09	173	16391803.7	R-squared	= 0.4541
				Adj R-squared	= 0.4383
Total	5.1945e+09	178	29182374.2	Root MSE	= 4048.7

OCCIPITAL_..	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-504.3657	448.3544	-1.12	0.262	-1389.315	380.5833
w1Age	-95.17316	41.24867	-2.31	0.022	-176.5886	-13.75771
Sex	5386.676	614.2773	8.77	0.000	4174.233	6599.119
Race	-4770.28	632.0901	-7.55	0.000	-6017.881	-3522.678
PovStat	-1253.582	687.8078	-1.82	0.070	-2611.158	103.9928
_cons	45480.1	2519.369	18.05	0.000	40507.44	50452.75

959 . reg OCCIPITAL_WM_R_volM2 LnNFLw3tert w1Age Sex Race PovStat if sample_final==1

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 18.21
Model	527246269	5	105449254	Prob > F	= 0.0000
Residual	1.0019e+09	173	5791115.11	R-squared	= 0.3448
				Adj R-squared	= 0.3259
Total	1.5291e+09	178	8590501.03	Root MSE	= 2406.5

O~WM_R_volM2	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	169.4877	266.495	0.64	0.526	-356.5126	695.488
w1Age	-54.50104	24.51759	-2.22	0.028	-102.8932	-6.108934
Sex	2891.357	365.1171	7.92	0.000	2170.699	3612.015
Race	-1601.383	375.7048	-4.26	0.000	-2342.939	-859.8279
PovStat	-760.6615	408.8225	-1.86	0.064	-1567.584	46.26064
_cons	22158.89	1497.475	14.80	0.000	19203.22	25114.56

```
960 .
961 .
962 . reg Left_Hippocampus LnNFLw3tert w1Age Sex Race PovStat  if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 13.08
Model	7260693.96	5	1452138.79	Prob > F	= 0.0000
Residual	19209389.9	173	111036.936	R-squared	= 0.2743
				Adj R-squared	= 0.2533
Total	26470083.9	178	148708.336	Root MSE	= 333.22

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-52.10682	36.90131	-1.41	0.160	-124.9416	20.72792
w1Age	-5.306726	3.394926	-1.56	0.120	-12.00753	1.394082
Sex	270.1322	50.55741	5.34	0.000	170.3435	369.921
Race	-249.6053	52.02347	-4.80	0.000	-352.2878	-146.9229
PovStat	-145.9903	56.60926	-2.58	0.011	-257.724	-34.25658
_cons	4047.851	207.3538	19.52	0.000	3638.582	4457.12

```
963 . reg Right_Hippocampus LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 11.21
Model	7442900.07	5	1488580.01	Prob > F	= 0.0000
Residual	22968327.2	173	132764.897	R-squared	= 0.2447
				Adj R-squared	= 0.2229
Total	30411227.3	178	170849.592	Root MSE	= 364.37

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-53.20684	40.35057	-1.32	0.189	-132.8496	26.43596
w1Age	-3.35056	3.712259	-0.90	0.368	-10.67771	3.97659
Sex	271.517	55.28314	4.91	0.000	162.4007	380.6333
Race	-283.7447	56.88624	-4.99	0.000	-396.0251	-171.4642
PovStat	-109.9961	61.90067	-1.78	0.077	-232.1738	12.18169
_cons	4246.449	226.7357	18.73	0.000	3798.925	4693.974

```
964 .
965 . reg Left_Hippocampuspct LnNFLw3tert  w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
				Number of obs	= 179
				F(5, 173)	= 5.59
Model	.014443456	5	.002888691	Prob > F	= 0.0001
Residual	.089338129	173	.000516405	R-squared	= 0.1392
				Adj R-squared	= 0.1143
Total	.103781585	178	.000583043	Root MSE	= .02272

Left_Hippo~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-.0029791	.0025165	-1.18	0.238	-.0079461	.001988
w1Age	-.0002848	.0002315	-1.23	0.220	-.0007418	.0001722
Sex	-.0154812	.0034478	-4.49	0.000	-.0222864	-.008676
Race	.000363	.0035478	0.10	0.919	-.0066396	.0073656
PovStat	-.0072711	.0038605	-1.88	0.061	-.0148909	.0003488
_cons	.3161182	.0141408	22.36	0.000	.2882076	.3440289

```
966 . reg Right_Hippocampuspct LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
Model	.016510302	5	.00330206	Number of obs	= 179
Residual	.091854035	173	.000530948	F(5, 173)	= 6.22
Total	.108364337	178	.000608788	Prob > F	= 0.0000
				R-squared	= 0.1524
				Adj R-squared	= 0.1279
				Root MSE	= .02304

Right_Hipp~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	-.0030066	.0025517	-1.18	0.240	-.0080431	.0020299
w1Age	-.0001402	.0002348	-0.60	0.551	-.0006036	.0003232
Sex	-.0181059	.003496	-5.18	0.000	-.0250063	-.0112055
Race	-.0004962	.0035974	-0.14	0.890	-.0075966	.0066043
PovStat	-.0044472	.0039145	-1.14	0.257	-.0121736	.0032792
_cons	.3322748	.0143385	23.17	0.000	.3039738	.3605758

```
967 .
968 .
969 . reg LnLesion_Volume LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
Model	123.020648	5	24.6041296	Number of obs	= 179
Residual	2502.09069	173	14.462952	F(5, 173)	= 1.70
Total	2625.11134	178	14.7478165	Prob > F	= 0.1367
				R-squared	= 0.0469
				Adj R-squared	= 0.0193
				Root MSE	= 3.803

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.4297104	.4211497	1.02	0.309	-.4015429	1.260964
w1Age	.0522139	.0387458	1.35	0.180	-.0242615	.1286893
Sex	.7407739	.577005	1.28	0.201	-.398102	1.87965
Race	.6868982	.593737	1.16	0.249	-.4850028	1.858799
PovStat	.4275188	.6460739	0.66	0.509	-.8476833	1.702721
_cons	-.3060972	2.366502	-0.13	0.897	-4.977031	4.364836

```
970 . reg LnLesion_Volumepct LnNFLw3tert w1Age Sex Race PovStat if sample_final==1
```

Source	SS	df	MS		
Model	118.904463	5	23.7808927	Number of obs	= 179
Residual	2495.80121	173	14.4265966	F(5, 173)	= 1.65
Total	2614.70567	178	14.6893577	Prob > F	= 0.1497
				R-squared	= 0.0455
				Adj R-squared	= 0.0179
				Root MSE	= 3.7982

LnLesion_V~t	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3tert	.4311631	.4206201	1.03	0.307	-.3990447	1.261371
w1Age	.052676	.0386971	1.36	0.175	-.0237032	.1290553
Sex	.6082336	.5762793	1.06	0.293	-.52921	1.745677
Race	.7580613	.5929903	1.28	0.203	-.4123659	1.928489
PovStat	.4385937	.6452614	0.68	0.498	-.8350047	1.712192
_cons	-9.751408	2.363526	-4.13	0.000	-14.41647	-5.086349

```
971 .
972 .
973 .
974 . mlogit NFLw1w3trackhigh LnNFLw3tert w1Age Sex Race PovStat  if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood =  -69.20095
Iteration 2:   log likelihood = -65.671391
Iteration 3:   log likelihood = -65.586247
Iteration 4:   log likelihood = -65.585988
Iteration 5:   log likelihood = -65.585988

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(5)    =  103.39
                                                      Prob > chi2   =  0.0000
Log likelihood = -65.585988                           Pseudo R2     =  0.4408

------------------------------------------------------------------------------
NFLw1w3tra~h | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw3tert |   2.433059   .4079614     5.96   0.000      1.63347    3.232649
       w1Age |   .0370055    .029339     1.26   0.207    -.0204979    .0945089
         Sex |  -.1910976    .446645    -0.43   0.669    -1.066506    .6843105
        Race |  -.4918366    .465849    -1.06   0.291    -1.404884    .4212107
     PovStat |  -1.183267   .5335986    -2.22   0.027    -2.229101   -.1374328
       _cons |  -5.282314   1.776404    -2.97   0.003    -8.764001   -1.800626
------------------------------------------------------------------------------

975 . mlogit NFLw1w3tracklow LnNFLw3tert w1Age Sex Race PovStat  if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -47.160377
Iteration 2:   log likelihood =  -40.05996
Iteration 3:   log likelihood = -39.713195
Iteration 4:   log likelihood = -39.712878
Iteration 5:   log likelihood = -39.712878

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(5)    =  155.13
                                                      Prob > chi2   =  0.0000
Log likelihood = -39.712878                           Pseudo R2     =  0.6614

------------------------------------------------------------------------------
NFLw1w3tra~w | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw3tert |  -4.566193   .6933428    -6.59   0.000     -5.92512   -3.207266
       w1Age |   .0214227   .0403723     0.53   0.596    -.0577055     .100551
         Sex |   .1262335   .6517525     0.19   0.846    -1.151178    1.403645
        Race |   -.091842   .6242019    -0.15   0.883    -1.315255    1.131571
     PovStat |   .6133978    .693901     0.88   0.377    -.7466232    1.973419
       _cons |   5.485947   2.487963     2.20   0.027     .6096279    10.36227
------------------------------------------------------------------------------
```

```
976 .
977 .
978 . mlogit NFLw1w3trackhigh LnNFLw3tert w1Age Sex Race PovStat ICV_volM2 if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -69.164252
Iteration 2:   log likelihood = -65.513614
Iteration 3:   log likelihood = -65.415409
Iteration 4:   log likelihood = -65.415078
Iteration 5:   log likelihood = -65.415078

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(6)    = 103.73
                                                      Prob > chi2   = 0.0000
Log likelihood = -65.415078                           Pseudo R2     = 0.4422

------------------------------------------------------------------------------
NFLw1w3tra~h | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw3tert |   2.443808   .4101613     5.96   0.000     1.639906    3.247709
       w1Age |   .0369595   .0294413     1.26   0.209    -.0207444    .0946635
         Sex |   .0369209   .5931301     0.06   0.950    -1.125593    1.199435
        Race |  -.6383063   .5308739    -1.20   0.229      -1.6788    .4021873
     PovStat |   -1.19635   .5369045    -2.23   0.026    -2.248664   -.1440369
   ICV_volM2 |  -1.27e-06   2.18e-06    -0.58   0.561    -5.53e-06    3.00e-06
       _cons |   -3.72907   3.184274    -1.17   0.242    -9.970132    2.511992
------------------------------------------------------------------------------

979 . mlogit NFLw1w3tracklow LnNFLw3tert w1Age Sex Race PovStat ICV_volM2 if sample_final==1, baseoutcome(0)

Iteration 0:   log likelihood = -117.28026
Iteration 1:   log likelihood = -47.157277
Iteration 2:   log likelihood = -39.855408
Iteration 3:   log likelihood = -39.439196
Iteration 4:   log likelihood = -39.438287
Iteration 5:   log likelihood = -39.438287

Multinomial logistic regression                       Number of obs =    179
                                                      LR chi2(6)    = 155.68
                                                      Prob > chi2   = 0.0000
Log likelihood = -39.438287                           Pseudo R2     = 0.6637

------------------------------------------------------------------------------
NFLw1w3tra~w | Coefficient  Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
0            |  (base outcome)
-------------+----------------------------------------------------------------
1            |
 LnNFLw3tert |  -4.63597    .713922    -6.49   0.000    -6.035232   -3.236709
       w1Age |   .0173572   .0411761     0.42   0.673    -.0633465    .0980609
         Sex |   .5379184   .8670513     0.62   0.535    -1.161471    2.237308
        Race |  -.3437097   .7193324    -0.48   0.633    -1.753575    1.066156
     PovStat |   .6050335   .6954507     0.87   0.384    -.7580248    1.968092
   ICV_volM2 |  -2.36e-06   3.22e-06    -0.73   0.464    -8.67e-06    3.95e-06
       _cons |   8.705844   5.150292     1.69   0.091    -1.388544    18.80023
------------------------------------------------------------------------------
```

```
. 
. 
. save, replace
file HANDLS_paper51_NFLBRAINSCANFINALIZED.dta saved

. 
. 
. 
. 
. 
. ************************************TABLE 2-3: MODELS WITH HIPPOCAMPUS AND LESION VOLUME ADJUSTED FOR ICV******
. 
. capture log close
```