```
. 
. 
. ////////////////////////////////////////////////TABLE S5: NFL at v1 AND v3 vs. Hippocampus and LnLesion volume a
> ////////////////////////////////////////////////////////
> 
.           ////////////////////////////////////LnNFLw1 EXPOSURE/////////////////////////////////////////////
> 
. 
. **********************LnNFLw1, MODELS 1 AND 2********************
. 
. ********************AFRICAN-AMERICAN************************************************************
. 
. **Model 1**
. 
. use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

. 
. 
. //ANALYSIS B//
. reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =        81
-------------+----------------------------------   F(6, 74)        =      9.82
       Model |  4360319.21         6  726719.868   Prob > F        =    0.0000
    Residual |  5475745.46        74  73996.5603   R-squared       =    0.4433
-------------+----------------------------------   Adj R-squared   =    0.3982
       Total |  9836064.67        80  122950.808   Root MSE        =    272.02

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |   33.75394   69.62813     0.48   0.629                .0510559
         Sex |  -35.81574   81.35268    -0.44   0.661               -.0512917
       w1Age |  -9.917578   4.045381    -2.45   0.017               -.2758433
        Race |           0  (omitted)                                        .
     PovStat |   -194.304   75.54538    -2.57   0.012                -.273972
 TIME_V1SCAN |   .0117587   .0580229     0.20   0.840                .0198255
   ICV_volM2 |    .001755   .0003279     5.35   0.000                .6265461
       _cons |   1838.151   441.0377     4.17   0.000                       .
------------------------------------------------------------------------------

. reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =        81
-------------+----------------------------------   F(6, 74)        =     11.00
       Model |  4456772.68         6  742795.446   Prob > F        =    0.0000
    Residual |  4995900.79        74  67512.1728   R-squared       =    0.4715
-------------+----------------------------------   Adj R-squared   =    0.4286
       Total |  9452673.47        80  118158.418   Root MSE        =    259.83

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |   28.40243    66.5074     0.43   0.671                .0438238
         Sex |  -36.00451   77.70646    -0.46   0.644               -.0525973
       w1Age |  -8.771393   3.864068    -2.27   0.026               -.2488621
        Race |           0  (omitted)                                        .
     PovStat |  -179.4274   72.15945    -2.49   0.015               -.2580753
 TIME_V1SCAN |    .032344   .0554223     0.58   0.561                .0556278
   ICV_volM2 |    .001834   .0003132     5.86   0.000                .6678928
       _cons |   1900.029   421.2704     4.51   0.000                       .
------------------------------------------------------------------------------
```

```
18 .
19 . //ANALYSIS C//
20 . reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	139.041818	6	23.1736364	Number of obs	= 80
Residual	610.619757	73	8.36465421	F(6, 73)	= 2.77
				Prob > F	= 0.0175
Total	749.661575	79	9.48938703	R-squared	= 0.1855
				Adj R-squared	= 0.1185
				Root MSE	= 2.8922

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	1.593774	.7403937	2.15	0.035	.2754611
Sex	.5086068	.8739571	0.58	0.562	.08297
w1Age	.0263046	.0432589	0.61	0.545	.0829003
Race	0	(omitted)			.
PovStat	-.2667706	.8034438	-0.33	0.741	-.0429009
TIME_V1SCAN	-.0006005	.0006182	-0.97	0.335	-.1154386
ICV_volM2	4.30e-06	3.50e-06	1.23	0.223	.17605
_cons	-2.818937	4.699444	-0.60	0.550	.

```
21 .
22 .
23 . **Model 2**
24 .
25 . use finaldata_imputed,clear

26 .
27 .
28 . //ANALYSIS B//
29 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 81
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 73
DF adjustment:	Small sample	DF: min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(7, 71.1)	= 8.31
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	29.77564	77.58938	0.38	0.702	-124.9302	184.4815
Sex	-37.83102	83.61558	-0.45	0.652	-204.5525	128.8905
w1Age	-9.691391	4.490337	-2.16	0.034	-18.6447	-.7380861
Race	0	(omitted)				
PovStat	-192.8933	76.96299	-2.51	0.014	-346.3502	-39.43638
TIME_V1SCAN	.0111758	.0586162	0.19	0.849	-.1056993	.1280509
w1BMI	-.676547	5.6571	-0.12	0.905	-11.95627	10.60317
ICV_volM2	.0017589	.0003318	5.30	0.000	.0010974	.0024205
_cons	1852.069	459.0036	4.03	0.000	936.8594	2767.279

```
30 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         81
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         73
DF adjustment:   Small sample                   DF:     min       =      71.08
                                                        avg       =      71.08
                                                        max       =      71.08
Model F test:       Equal FMI                   F(   7,   71.1)   =       9.45
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   4.736612   73.83699     0.06   0.949    -142.4873    151.9606
         Sex |  -47.99283   79.57176    -0.60   0.548    -206.6514    110.6657
       w1Age |  -7.425862   4.273174    -1.74   0.087    -15.94617    1.094441
        Race |          0  (omitted)
     PovStat |  -171.0353    73.2409    -2.34   0.022    -317.0706   -24.99987
 TIME_V1SCAN |   .0288766   .0557814     0.52   0.606    -.0823461    .1400994
       w1BMI |    -4.0246    5.38351    -0.75   0.457    -14.75881    6.709607
   ICV_volM2 |   .0018576   .0003158     5.88   0.000     .0012281    .0024872
       _cons |   1982.824   436.8052     4.54   0.000     1111.876    2853.772
------------------------------------------------------------------------------

31 .
32 . //ANALYSIS C//
33 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         80
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         72
DF adjustment:   Small sample                   DF:     min       =      70.08
                                                        avg       =      70.08
                                                        max       =      70.08
Model F test:       Equal FMI                   F(   7,   70.1)   =       2.61
Within VCE type:          OLS                   Prob > F          =     0.0186

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   2.029584   .8163415     2.49   0.015     .4014749    3.657693
         Sex |   .7346978   .8893779     0.83   0.412    -1.039075     2.50847
       w1Age |   .0013106   .0475362     0.03   0.978    -.0934955    .0961167
        Race |          0  (omitted)
     PovStat |  -.4206953   .8098989    -0.52   0.605    -2.035955    1.194565
 TIME_V1SCAN |   -.000535   .0006181    -0.87   0.390    -.0017677    .0006977
       w1BMI |   .0741984   .0595517     1.25   0.217    -.0445715    .1929682
   ICV_volM2 |   3.86e-06   3.51e-06     1.10   0.275    -3.14e-06    .0000108
       _cons |  -4.332765   4.836852    -0.90   0.373    -13.97937    5.313839
------------------------------------------------------------------------------
```

```
34 .
35 . save, replace
   file finaldata_imputed.dta saved

36 .
37 .
38 .
39 .
40 .
41 . ********************WHITES*******************************************************
42 .
43 . **Model 1**
44 .
45 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

46 .
47 .
48 . //ANALYSIS B//
49 . reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
   note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =       119
-------------+----------------------------------   F(6, 112)       =     12.17
       Model |  6902827.3         6  1150471.22   Prob > F        =    0.0000
    Residual |  10591877.9       112  94570.3382   R-squared       =    0.3946
-------------+----------------------------------   Adj R-squared   =    0.3621
       Total |  17494705.2       118  148260.213   Root MSE        =    307.52

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |  -59.07982   68.18194    -0.87   0.388               -.0770314
         Sex |  -62.96597   79.60628    -0.79   0.431               -.0816186
       w1Age |  -1.96424    3.917467    -0.50   0.617               -.0440427
        Race |          0  (omitted)                                        .
     PovStat |  -20.8187    66.75394    -0.31   0.756               -.0243071
 TIME_V1SCAN |  .0157425    .0453558     0.35   0.729                .0269641
   ICV_volM2 |  .0018357    .0002854     6.43   0.000                .6797785
       _cons |  1405.827    406.0669     3.46   0.001                       .
------------------------------------------------------------------------------

50 . reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
   note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =       119
-------------+----------------------------------   F(6, 112)       =     16.01
       Model |  9536986.28         6  1589497.71   Prob > F        =    0.0000
    Residual |  11119319.2       112  99279.6361   R-squared       =    0.4617
-------------+----------------------------------   Adj R-squared   =    0.4329
       Total |  20656305.5       118  175053.437   Root MSE        =    315.09

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |  -65.49318   69.85893    -0.94   0.351               -.0785871
         Sex |  -187.5818   81.56427    -2.30   0.023               -.2237694
       w1Age |  1.029926    4.013821     0.26   0.798                .0212526
        Race |          0  (omitted)                                        .
     PovStat |  9.560409    68.39582     0.14   0.889                .0102727
 TIME_V1SCAN |  .0473511    .0464714     1.02   0.310                .0746397
   ICV_volM2 |  .0024447    .0002924     8.36   0.000                .8331367
       _cons |  828.5139    416.0545     1.99   0.049                       .
------------------------------------------------------------------------------
```

```
51 .
52 . //ANALYSIS C//
53 . reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	202.245862	6	33.7076436	Number of obs	= 117
Residual	1708.5517	110	15.5322882	F(6, 110)	= 2.17
				Prob > F	= 0.0512
Total	1910.79756	116	16.4723928	R-squared	= 0.1058
				Adj R-squared	= 0.0571
				Root MSE	= 3.9411

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	2.527642	.9190924	2.75	0.007	.3056554
Sex	.0927673	1.023201	0.09	0.928	.0114065
w1Age	-.0183607	.0521139	-0.35	0.725	-.0386617
Race	0	(omitted)			.
PovStat	1.819022	.8677077	2.10	0.038	.2006421
TIME_V1SCAN	-.0005381	.0005819	-0.92	0.357	-.0881706
ICV_volM2	1.51e-06	3.66e-06	0.41	0.680	.053285
_cons	-2.390287	5.226424	-0.46	0.648	.

```
54 .
55 .
56 . **Model 2**
57 .
58 . use finaldata_imputed,clear

59 .
60 .
61 .
62 . //ANALYSIS B//
63 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 119
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 111
DF adjustment:	Small sample	DF: min	= 109.05
		avg	= 109.05
		max	= 109.05
Model F test:	Equal FMI	F(7, 109.1)	= 10.39
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-55.55587	68.77571	-0.81	0.421	-191.8664	80.75461
Sex	-57.96438	80.50176	-0.72	0.473	-217.5154	101.5866
w1Age	-1.939798	3.930978	-0.49	0.623	-9.730827	5.85123
Race	0	(omitted)				
PovStat	-20.22466	66.98955	-0.30	0.763	-152.9951	112.5457
TIME_V1SCAN	.0185569	.0458573	0.40	0.687	-.0723303	.1094441
w1BMI	2.093469	4.197687	0.50	0.619	-6.226165	10.4131
ICV_volM2	.001834	.0002864	6.40	0.000	.0012665	.0024016
_cons	1324.514	438.8472	3.02	0.003	454.7378	2194.29

```
64 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        119
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        111
DF adjustment:   Small sample                   DF:     min       =     109.05
                                                        avg       =     109.05
                                                        max       =     109.05
Model F test:       Equal FMI                   F(   7,  109.1)   =      14.10
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |  -55.63566   69.95595    -0.80   0.428    -194.2853      83.014
         Sex |  -173.5909   81.88322    -2.12   0.036    -335.8799   -11.30187
       w1Age |   1.098294   3.998436     0.27   0.784    -6.826433    9.023022
        Race |          0  (omitted)
     PovStat |    11.2221   68.13913     0.16   0.869    -123.8267    146.2709
  TIME_V1SCAN |   .0552238   .0466442     1.18   0.239     -.037223    .1476707
       w1BMI |   5.856052   4.269722     1.37   0.173    -2.606353    14.31846
    ICV_volM2 |     .00244   .0002913     8.38   0.000     .0018627    .0030173
        _cons |   601.0583   446.3781     1.35   0.181    -283.6438     1485.76
------------------------------------------------------------------------------

65 .
66 . //ANALYSIS C//
67 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        117
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =        109
DF adjustment:   Small sample                   DF:     min       =     107.05
                                                        avg       =     107.05
                                                        max       =     107.05
Model F test:       Equal FMI                   F(   7,  107.1)   =       1.90
Within VCE type:          OLS                   Prob > F          =     0.0762

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   2.565906   .9239194     2.78   0.006     .7343544    4.397458
         Sex |   .1725733   1.034605     0.17   0.868    -1.878399    2.223545
       w1Age |  -.0177909   .0522732    -0.34   0.734    -.1214159    .0858341
        Race |          0  (omitted)
     PovStat |   1.818314   .8702196     2.09   0.039     .0932147    3.543413
  TIME_V1SCAN |  -.0004919   .0005885    -0.84   0.405    -.0016586    .0006747
       w1BMI |   .0328277   .0542574     0.61   0.546    -.0747307    .1403862
    ICV_volM2 |   1.49e-06   3.67e-06     0.41   0.685    -5.78e-06    8.77e-06
        _cons |  -3.642598   5.635419    -0.65   0.519     -14.8141     7.5289
------------------------------------------------------------------------------
```

```
68 .
69 . save, replace
   file finaldata_imputed.dta saved

70 .
71 .
72 .
73 . //INTERACTION BY Race//
74 .
75 .
76 . //ANALYSIS B//
77 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2

   Multiple-imputation estimates                 Imputations       =          5
   Linear regression                             Number of obs     =        200
                                                 Average RVI       =     0.0000
                                                 Largest FMI       =     0.0000
                                                 Complete DF       =        190
   DF adjustment:   Small sample                 DF:     min       =     188.03
                                                         avg       =     188.03
                                                         max       =     188.03
   Model F test:       Equal FMI                 F(   9,  188.0)   =      16.78
   Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |  -39.66908   60.68152    -0.65   0.514    -159.3731    80.03496
               |
          Race |
        AfrAm |  -150.8539   169.7475    -0.89   0.375    -485.7081    184.0003
               |
Race#c.LnNFLw1 |
        AfrAm |   40.61499   83.52545     0.49   0.627    -124.1524    205.3823
               |
           Sex |  -40.50441   57.99876    -0.70   0.486    -154.9163    73.90746
         w1Age |  -4.661518   2.793602    -1.67   0.097    -10.17235      .84931
          Race |          0  (omitted)
       PovStat |  -82.02332      48.65    -1.69   0.093    -177.9933    13.94662
   TIME_V1SCAN |   .0041923   .0353062     0.12   0.906    -.0654549    .0738395
         w1BMI |   .0680504   3.271155     0.02   0.983    -6.384827    6.520928
      ICV_volM2 |   .0017375   .0002138     8.13   0.000     .0013158    .0021593
          _cons |   1696.152   320.1168     5.30   0.000      1064.67    2327.633
------------------------------------------------------------------------------

78 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2

   Multiple-imputation estimates                 Imputations       =          5
   Linear regression                             Number of obs     =        200
                                                 Average RVI       =     0.0000
                                                 Largest FMI       =     0.0000
                                                 Complete DF       =        190
   DF adjustment:   Small sample                 DF:     min       =     188.03
                                                         avg       =     188.03
                                                         max       =     188.03
   Model F test:       Equal FMI                 F(   9,  188.0)   =      20.56
   Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-31.92025	61.34116	-0.52	0.603	-152.9255	89.08504
Race						
AfrAm	-154.3192	171.5927	-0.90	0.370	-492.8135	184.175
Race#c.LnNFLw1						
AfrAm	39.03686	84.43341	0.46	0.644	-127.5216	205.5953
Sex	-107.7588	58.62924	-1.84	0.068	-223.4144	7.896778
w1Age	-2.791662	2.82397	-0.99	0.324	-8.362397	2.779072
Race	0	(omitted)				
PovStat	-62.1678	49.17885	-1.26	0.208	-159.181	34.84538
TIME_V1SCAN	.0318593	.03569	0.89	0.373	-.038545	.1022637
w1BMI	1.227189	3.306714	0.37	0.711	-5.295835	7.750214
ICV_volM2	.0021268	.0002161	9.84	0.000	.0017005	.0025531
_cons	1349.452	323.5966	4.17	0.000	711.1056	1987.798

```
79 .
80 . //ANALYSIS C//
81 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 197
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 187
DF adjustment: Small sample — DF: min = 185.03
avg = 185.03
max = 185.03
Model F test: Equal FMI — F(9, 185.0) = 2.57
Within VCE type: OLS — Prob > F = 0.0084

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.165116	.7626427	2.84	0.005	.6605224	3.669709
Race						
AfrAm	1.405384	2.080321	0.68	0.500	-2.698815	5.509582
Race#c.LnNFLw1						
AfrAm	-.1426499	1.028162	-0.14	0.890	-2.171077	1.885778
Sex	.5287551	.7069273	0.75	0.455	-.8659189	1.923429
w1Age	.0081189	.0347285	0.23	0.815	-.0603959	.0766337
Race	0	(omitted)				
PovStat	.8443423	.596086	1.42	0.158	-.3316565	2.020341
TIME_V1SCAN	-.0005157	.0004283	-1.20	0.230	-.0013607	.0003293
w1BMI	.0468205	.0398771	1.17	0.242	-.0318518	.1254928
ICV_volM2	1.74e-06	2.60e-06	0.67	0.504	-3.38e-06	6.86e-06
_cons	-4.035512	3.883357	-1.04	0.300	-11.69686	3.625837

```
82 .
83 . save, replace
   file finaldata_imputed.dta saved

84 .
85 .
86 . ********************LnNFLw1, MODELS 3-6*************************
87 .
88 . ***********MODEL 3: MODEL 2+w1dxDiabetes w1Glucose******
89 .
90 . //AFRICAN-AMERICAN//
91 .
92 . use finaldata_imputed,clear

93 .
94 .
95 .
96 . //ANALYSIS B//
97 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM

   Multiple-imputation estimates                   Imputations       =          5
   Linear regression                               Number of obs     =         81
                                                   Average RVI       =     0.0069
                                                   Largest FMI       =     0.0624
                                                   Complete DF       =         71
   DF adjustment:   Small sample                   DF:     min       =      61.59
                                                           avg       =      68.01
                                                           max       =      69.07
   Model F test:       Equal FMI                   F(   9,   69.0)   =       7.09
   Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   16.30067   79.96206     0.20   0.839    -143.2222    175.8236
         Sex |  -45.22829   82.96368    -0.55   0.587    -210.7459    120.2893
       w1Age |  -8.514048   4.631177    -1.84   0.070    -17.75323    .7251353
        Race |          0  (omitted)
     PovStat |  -194.0311   75.79359    -2.56   0.013    -345.2324   -42.82974
 TIME_V1SCAN |   .0038899    .058296     0.07   0.947    -.1124078    .1201877
       w1BMI |  -2.016779   5.613319    -0.36   0.720    -13.21498    9.18142
w1dxDiabetes |  -60.49845   63.64213    -0.95   0.346    -187.7341    66.73716
   w1Glucose |   3.720928   1.835946     2.03   0.047     .0565498    7.385307
   ICV_volM2 |   .0016533   .0003342     4.95   0.000     .0009865    .0023202
       _cons |   1691.386   459.8057     3.68   0.000     774.1123     2608.66
------------------------------------------------------------------------------

98 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_vol

   Multiple-imputation estimates                   Imputations       =          5
   Linear regression                               Number of obs     =         81
                                                   Average RVI       =     0.0008
                                                   Largest FMI       =     0.0043
                                                   Complete DF       =         71
   DF adjustment:   Small sample                   DF:     min       =      68.82
                                                           avg       =      68.99
                                                           max       =      69.07
   Model F test:       Equal FMI                   F(   9,   69.1)   =       9.48
   Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	1.372797	72.89382	0.02	0.985	-144.0463	146.7919
Sex	-64.79417	75.57622	-0.86	0.394	-215.5658	85.97749
w1Age	-6.621004	4.22141	-1.57	0.121	-15.04252	1.800508
Race	0	(omitted)				
PovStat	-174.0174	69.13442	-2.52	0.014	-311.9345	-36.10031
TIME_V1SCAN	.0238296	.0531443	0.45	0.655	-.0821888	.129848
w1BMI	-5.904334	5.120753	-1.15	0.253	-16.11996	4.311292
w1dxDiabetes	-46.11816	56.41125	-0.82	0.416	-158.6606	66.42431
w1Glucose	5.071438	1.658087	3.06	0.003	1.763648	8.379227
ICV_volM2	.0017402	.0003041	5.72	0.000	.0011337	.0023468
_cons	1729.041	419.365	4.12	0.000	892.445	2565.637

```
 99 .
100 . //ANALYSIS C//
101 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 80
		Average RVI	= 0.0016
		Largest FMI	= 0.0171
		Complete DF	= 70
DF adjustment: Small sample		DF: min	= 66.72
		avg	= 67.88
		max	= 68.08
Model F test: Equal FMI		F(9, 68.1)	= 2.00
Within VCE type: OLS		Prob > F	= 0.0520

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	1.995662	.8653616	2.31	0.024	.2688578	3.722467
Sex	.7709582	.9049816	0.85	0.397	-1.034868	2.576784
w1Age	.002446	.0504966	0.05	0.962	-.0983186	.1032106
Race	0	(omitted)				
PovStat	-.4140335	.8205288	-0.50	0.615	-2.051338	1.22327
TIME_V1SCAN	-.0005425	.0006325	-0.86	0.394	-.0018047	.0007197
w1BMI	.0767438	.0607725	1.26	0.211	-.0445233	.1980109
w1dxDiabetes	-.0331254	.6749749	-0.05	0.961	-1.380484	1.314233
w1Glucose	-.0066426	.019724	-0.34	0.737	-.0460048	.0327196
ICV_volM2	3.95e-06	3.62e-06	1.09	0.279	-3.27e-06	.0000112
_cons	-3.917095	4.981802	-0.79	0.434	-13.85791	6.023719

```
102 .
103 . save, replace
    file finaldata_imputed.dta saved

104 .
105 .
```

```
106 .
107 . //Whites//
108 .
109 . use finaldata_imputed,clear

110 .
111 .
112 . //ANALYSIS B//
113 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM
```

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **119**
Average RVI = **0.0002**
Largest FMI = **0.0013**
Complete DF = **109**
DF adjustment: **Small sample** — DF: min = **106.95**
avg = **107.03**
max = **107.05**
Model F test: **Equal FMI** — F(**9, 107.1**) = **8.15**
Within VCE type: **OLS** — Prob > F = **0.0000**

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-69.75754	74.40006	-0.94	0.351	-217.2477	77.73266
Sex	-69.4338	81.99348	-0.85	0.399	-231.9755	93.1079
w1Age	-2.549905	4.010856	-0.64	0.526	-10.50097	5.401156
Race	0	(omitted)				
PovStat	-31.93015	68.09438	-0.47	0.640	-166.9186	103.0582
TIME_V1SCAN	.0298941	.0472003	0.63	0.528	-.0636745	.1234627
w1BMI	.5581775	4.52286	0.12	0.902	-8.407814	9.524169
w1dxDiabetes	61.89274	64.54064	0.96	0.340	-66.0509	189.8364
w1Glucose	-.3297791	1.419335	-0.23	0.817	-3.14343	2.483872
ICV_volM2	.0018186	.0002889	6.29	0.000	.0012459	.0023913
_cons	1468.699	470.0835	3.12	0.002	536.8187	2400.58

```
114 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_vol
```

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **119**
Average RVI = **0.0010**
Largest FMI = **0.0084**
Complete DF = **109**
DF adjustment: **Small sample** — DF: min = **106.02**
avg = **106.90**
max = **107.05**
Model F test: **Equal FMI** — F(**9, 107.0**) = **10.93**
Within VCE type: **OLS** — Prob > F = **0.0000**

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-70.45606	75.79415	-0.93	0.355	-220.7095	79.79736
Sex	-184.2771	83.54261	-2.21	0.030	-349.8899	-18.6643
w1Age	.6433441	4.085416	0.16	0.875	-7.455473	8.742162
Race	0	(omitted)				
PovStat	1.330888	69.38234	0.02	0.985	-136.2109	138.8727
TIME_V1SCAN	.0648527	.0480998	1.35	0.180	-.0304995	.1602049
w1BMI	4.473237	4.608747	0.97	0.334	-4.663042	13.60952
w1dxDiabetes	48.28919	66.01909	0.73	0.466	-82.59974	179.1781
w1Glucose	-.1157011	1.447829	-0.08	0.936	-2.985921	2.754519
ICV_volM2	.0024301	.0002944	8.26	0.000	.0018466	.0030136
_cons	710.4162	479.1	1.48	0.141	-239.3455	1660.178

```
115 .
116 . //ANALYSIS C//
117 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 117
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 107
DF adjustment:	Small sample	DF: min	= 105.05
		avg	= 105.05
		max	= 105.05
Model F test:	Equal FMI	F(9, 105.1)	= 1.58
Within VCE type:	OLS	Prob > F	= 0.1315

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.931634	1.011654	2.90	0.005	.9257231	4.937546
Sex	.3608959	1.056203	0.34	0.733	-1.733347	2.455138
w1Age	-.0177677	.0534518	-0.33	0.740	-.123752	.0882167
Race	0	(omitted)				
PovStat	1.925842	.8832543	2.18	0.031	.174522	3.677161
TIME_V1SCAN	-.0006053	.0006062	-1.00	0.320	-.0018072	.0005967
w1BMI	.0535274	.0584787	0.92	0.362	-.0624242	.1694791
w1dxDiabetes	-.2934559	.8375572	-0.35	0.727	-1.954167	1.367255
w1Glucose	-.008859	.0185235	-0.48	0.633	-.0455874	.0278694
ICV_volM2	1.40e-06	3.71e-06	0.38	0.707	-5.95e-06	8.75e-06
_cons	-4.059334	6.052056	-0.67	0.504	-16.05937	7.940701

```
118 .
119 . save, replace
    file finaldata_imputed.dta saved

120 .
121 .
122 . //INTERACTION by Race//
123 .
124 .
125 .
126 . //ANALYSIS B//
127 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 200
		Average RVI	= 0.0031
		Largest FMI	= 0.0335
		Complete DF	= 188
DF adjustment:	Small sample	DF: min	= 171.79
		avg	= 184.44
		max	= 186.03
Model F test:	Equal FMI	F(11, 186.0)	= 13.88
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-68.60745	64.16251	-1.07	0.286	-195.1872	57.97226
Race						
AfrAm	-210.3717	174.7946	-1.20	0.230	-555.2071	134.4636
Race#c.LnNFLw1						
AfrAm	72.84339	86.44778	0.84	0.401	-97.70103	243.3878
Sex	-53.4182	58.70793	-0.91	0.364	-169.2372	62.40077
w1Age	-4.732657	2.862644	-1.65	0.100	-10.38013	.9148213
Race	0	(omitted)				
PovStat	-87.28042	48.79353	-1.79	0.075	-183.5402	8.9794
TIME_V1SCAN	.0104429	.0358797	0.29	0.771	-.0603409	.0812266
w1BMI	-1.262515	3.399058	-0.37	0.711	-7.968179	5.443149
w1dxDiabetes	11.79626	44.83446	0.26	0.793	-76.7011	100.2936
w1Glucose	1.033388	1.097566	0.94	0.348	-1.132182	3.198958
ICV_volM2	.0017454	.0002138	8.16	0.000	.0013236	.0021672
_cons	1691.754	329.6329	5.13	0.000	1041.446	2342.061

128 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 200
		Average RVI	= 0.0005
		Largest FMI	= 0.0049
		Complete DF	= 188
DF adjustment:	Small sample	DF: min	= 184.97
		avg	= 185.89
		max	= 186.03
Model F test:	Equal FMI	F(11, 186.0)	= 17.43
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-72.89682	64.46954	-1.13	0.260	-200.0822	54.28861
Race						
AfrAm	-241.941	175.6117	-1.38	0.170	-588.3879	104.5059
Race#c.LnNFLw1						
AfrAm	86.22406	86.85408	0.99	0.322	-85.12171	257.5698
Sex	-126.9382	58.98743	-2.15	0.033	-243.3085	-10.56786
w1Age	-2.990739	2.874419	-1.04	0.299	-8.661393	2.679916
Race	0	(omitted)				
PovStat	-70.01825	49.02586	-1.43	0.155	-166.7364	26.69989
TIME_V1SCAN	.0416696	.0360399	1.16	0.249	-.0294299	.1127691
w1BMI	-.7293698	3.41499	-0.21	0.831	-7.466455	6.007716
w1dxDiabetes	23.80691	44.41398	0.54	0.593	-63.81618	111.43
w1Glucose	1.373357	1.096657	1.25	0.212	-.7901517	3.536867
ICV_volM2	.0021392	.0002149	9.96	0.000	.0017153	.002563
_cons	1354.719	330.9622	4.09	0.000	701.7955	2007.642

```
129 .
130 . //ANALYSIS C//
131 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        197
                                                Average RVI       =     0.0002
                                                Largest FMI       =     0.0020
                                                Complete DF       =        185
DF adjustment:   Small sample                   DF:     min       =     182.67
                                                        avg       =     182.99
                                                        max       =     183.03
Model F test:       Equal FMI                   F(  11,  183.0)   =       2.20
Within VCE type:          OLS                   Prob > F          =     0.0163

------------------------------------------------------------------------------
LnLesion_Vol~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |   2.433389   .8152942     2.98   0.003     .8248056    4.041972
               |
          Race |
         AfrAm |   1.982591   2.151566     0.92   0.358    -2.262471    6.227652
               |
Race#c.LnNFLw1 |
         AfrAm |  -.4507097   1.069018    -0.42   0.674    -2.559892    1.658473
               |
           Sex |    .650437   .7173772     0.91   0.366    -.7649558     2.06583
         w1Age |   .0092936   .0356859     0.26   0.795    -.0611151    .0797023
          Race |          0  (omitted)
       PovStat |   .8907394   .5989802     1.49   0.139    -.2910543    2.072533
    TIME_V1SCAN |  -.0005817   .0004362    -1.33   0.184    -.0014422    .0002789
         w1BMI |   .0590665   .0415249     1.42   0.157    -.0228626    .1409956
   w1dxDiabetes |  -.1877194   .5400379    -0.35   0.729    -1.253233    .8777947
      w1Glucose |  -.0077867   .0134098    -0.58   0.562    -.0342445    .0186712
      ICV_volM2 |   1.66e-06   2.60e-06     0.64   0.524    -3.47e-06    6.80e-06
          _cons |  -4.145647   4.005548    -1.03   0.302    -12.04864    3.757343
------------------------------------------------------------------------------

132 .
133 . save, replace
file finaldata_imputed.dta saved

134 .
135 .
136 . ***********MODEL 4: MODEL 2+liver/kidney disease******
137 .
138 . //AFRICAN-AMERICAN//
139 .
140 . use finaldata_imputed,clear

141 .
142 .
143 .
```

```
144 . //ANALYSIS B//
145 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 81
Average RVI = 0.1092
Largest FMI = 0.5973
Complete DF = 68
DF adjustment: **Small sample** — DF: min = 9.61
avg = 56.67
max = 65.52
Model F test: **Equal FMI** — F(11, 64.1) = 4.58
Within VCE type: **OLS** — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	33.46147	84.41544	0.40	0.693	-135.542	202.4649
Sex	-53.00788	115.4489	-0.46	0.648	-285.6792	179.6635
w1Age	-9.675144	5.231281	-1.85	0.069	-20.1217	.7714158
Race	0	(omitted)				
PovStat	-182.8743	81.02508	-2.26	0.027	-344.7214	-21.02725
TIME_V1SCAN	.0046355	.0639753	0.07	0.942	-.1233754	.1326464
w1BMI	-.1440811	6.300925	-0.02	0.982	-12.72601	12.43785
w1Creatinine	120.8135	233.3229	0.52	0.616	-401.9336	643.5605
w1USpecGrav	-3974.893	4993.017	-0.80	0.429	-13947.49	5997.707
w1BUN	-.8542727	11.14496	-0.08	0.939	-23.17745	21.4689
w1ALP	.0979386	1.693175	0.06	0.954	-3.287067	3.482945
w1UricAcid	-7.442643	28.39302	-0.26	0.794	-64.22087	49.33558
ICV_volM2	.0017715	.0003633	4.88	0.000	.0010454	.0024976
_cons	5820.48	5116.41	1.14	0.259	-4396.973	16037.93

```
146 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 81
Average RVI = 0.0486
Largest FMI = 0.3682
Complete DF = 68
DF adjustment: **Small sample** — DF: min = 20.23
avg = 60.13
max = 65.98
Model F test: **Equal FMI** — F(11, 65.5) = 5.72
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	8.182885	78.8537	0.10	0.918	-149.4793	165.8451
Sex	-101.4924	105.2277	-0.96	0.339	-312.2976	109.3127
w1Age	-9.13994	4.927262	-1.85	0.068	-18.9776	.6977176
Race	0	(omitted)				
PovStat	-177.1107	76.13927	-2.33	0.023	-329.1453	-25.07603
TIME_V1SCAN	.0385517	.0597153	0.65	0.521	-.0807878	.1578913
w1BMI	-6.41124	5.963263	-1.08	0.286	-18.31937	5.496892
w1Creatinine	109.063	183.6912	0.59	0.559	-273.8351	491.9611
w1USpecGrav	859.4353	4717.46	0.18	0.856	-8562.225	10281.1
w1BUN	10.53328	10.32827	1.02	0.312	-10.11009	31.17664
w1ALP	-.129901	1.585806	-0.08	0.935	-3.297873	3.038071
w1UricAcid	.2931425	26.49148	0.01	0.991	-52.62536	53.21165
ICV_volM2	.0019653	.0003418	5.75	0.000	.0012825	.0026481
_cons	953.5341	4839.808	0.20	0.844	-8711.622	10618.69

```
147 .
148 . //ANALYSIS C//
149 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 80
		Average RVI	= 0.0104
		Largest FMI	= 0.0460
		Complete DF	= 67
DF adjustment: **Small sample**		DF: min	= 60.53
		avg	= 64.20
		max	= 64.86
Model F test: **Equal FMI**		F(11, 65.0)	= 1.94
Within VCE type: **OLS**		Prob > F	= 0.0497

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	1.945894	.8518017	2.28	0.026	.2444199	3.647368
Sex	.6223561	1.162435	0.54	0.594	-1.699349	2.944061
w1Age	.0158934	.0544158	0.29	0.771	-.0927942	.124581
Race	0	(omitted)				
PovStat	-.2109993	.8382868	-0.25	0.802	-1.885432	1.463433
TIME_V1SCAN	-.0007231	.0006507	-1.11	0.271	-.002023	.0005769
w1BMI	.0807652	.066555	1.21	0.229	-.0522004	.2137309
w1Creatinine	1.451221	1.693415	0.86	0.395	-1.935503	4.837944
w1USpecGrav	-67.18945	52.01917	-1.29	0.201	-171.0886	36.70974
w1BUN	.0669353	.1126784	0.59	0.555	-.1581084	.2919791
w1ALP	-.0123329	.0173775	-0.71	0.480	-.0470411	.0223753
w1UricAcid	-.34772	.3069622	-1.13	0.261	-.9608229	.265383
ICV_volM2	4.23e-06	3.78e-06	1.12	0.267	-3.32e-06	.0000118
_cons	63.94173	53.38336	1.20	0.235	-42.68159	170.5651

```
150 .
151 . save, replace
    file finaldata_imputed.dta saved

152 .
153 .
154 .
155 . //WHITES//
156 .
157 . use finaldata_imputed,clear

158 .
159 .
160 .
161 . //ANALYSIS B//
162 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 119
		Average RVI	= 0.0150
		Largest FMI	= 0.0851
		Complete DF	= 106
DF adjustment: **Small sample**		DF: min	= 82.85
		avg	= 98.17
		max	= 103.94
Model F test: **Equal FMI**		F(11, 103.9)	= 7.23
Within VCE type: **OLS**		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-86.70614	72.08784	-1.20	0.232	-229.6609	56.24864
Sex	-77.64143	97.70553	-0.79	0.429	-271.4146	116.1318
w1Age	-1.429075	4.030629	-0.35	0.724	-9.422082	6.563933
Race	0	(omitted)				
PovStat	-20.22454	67.09589	-0.30	0.764	-153.2791	112.8301
TIME_V1SCAN	.0288083	.0470945	0.61	0.542	-.064588	.1222045
w1BMI	1.981964	4.642089	0.43	0.670	-7.223632	11.18756
w1Creatinine	-150.8853	183.5265	-0.82	0.413	-515.8515	214.081
w1USpecGrav	-2630.231	5479.88	-0.48	0.633	-13529.78	8269.321
w1BUN	18.17372	8.457579	2.15	0.034	1.380021	34.96742
w1ALP	-1.902394	1.405299	-1.35	0.179	-4.689275	.8844873
w1UricAcid	2.878224	25.99766	0.11	0.912	-48.67977	54.43622
ICV_volM2	.0019679	.0002984	6.59	0.000	.0013761	.0025597
_cons	3866.032	5505.953	0.70	0.485	-7084.767	14816.83

163 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 119
Average RVI = 0.0237
Largest FMI = 0.1847
Complete DF = 106
DF adjustment: **Small sample** — DF: min = 53.15
avg = 93.68
max = 103.99
Model F test: **Equal FMI** — F(11, 103.7) = 9.35
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-97.7223	73.65409	-1.33	0.187	-243.7851	48.34052
Sex	-198.4996	100.2745	-1.98	0.050	-397.4063	.4071463
w1Age	1.359518	4.117741	0.33	0.742	-6.806329	9.525365
Race	0	(omitted)				
PovStat	8.402196	68.50156	0.12	0.903	-127.4392	144.2436
TIME_V1SCAN	.0608585	.0482039	1.26	0.210	-.0347451	.1564621
w1BMI	6.264825	4.742747	1.32	0.189	-3.140508	15.67016
w1Creatinine	-58.06901	197.6391	-0.29	0.770	-454.4568	338.3188
w1USpecGrav	-1632.916	5675.091	-0.29	0.774	-12941.38	9675.546
w1BUN	18.30104	8.73048	2.10	0.039	.948163	35.65392
w1ALP	-.5665504	1.435241	-0.39	0.694	-3.412822	2.279721
w1UricAcid	-5.225787	26.49618	-0.20	0.844	-57.76952	47.31794
ICV_volM2	.0025455	.000305	8.35	0.000	.0019407	.0031504
_cons	2063.329	5705.856	0.36	0.719	-9306.732	13433.39

164 .
165 . //ANALYSIS C//

```
166 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        117
                                                Average RVI       =     0.0041
                                                Largest FMI       =     0.0399
                                                Complete DF       =        104
DF adjustment:   Small sample                   DF:     min       =      94.78
                                                        avg       =     101.12
                                                        max       =     102.02
Model F test:       Equal FMI                   F(  11,  102.0)   =       1.54
Within VCE type:          OLS                   Prob > F          =     0.1276

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw1 |   2.612549   .9554125     2.73   0.007     .7174982      4.5076
          Sex |  -.7090678   1.289333    -0.55   0.584    -3.266498    1.848363
        w1Age |  -.0211332   .0544322    -0.39   0.699    -.1290997    .0868334
         Race |          0  (omitted)
      PovStat |   1.652573   .8834686     1.87   0.064    -.0998087    3.404956
  TIME_V1SCAN |  -.0005013   .0006109    -0.82   0.414    -.0017131    .0007105
        w1BMI |  -.0045885   .0612019    -0.07   0.940    -.1259823    .1168053
 w1Creatinine |  -.4184743   2.394282    -0.17   0.862    -5.171866    4.334917
  w1USpecGrav |    106.098   69.34003     1.53   0.129    -31.45736    243.6535
        w1BUN |  -.0056389   .1101158    -0.05   0.959    -.2240829    .2128052
        w1ALP |  -.0034908   .0182752    -0.19   0.849    -.0397396     .032758
   w1UricAcid |   .3219479   .3437528     0.94   0.351    -.3598914    1.003787
    ICV_volM2 |   2.26e-06   3.88e-06     0.58   0.561    -5.43e-06    9.96e-06
        _cons |  -111.2082   69.64013    -1.60   0.113    -249.3603    26.94385
------------------------------------------------------------------------------

167 .
168 . save, replace
    file finaldata_imputed.dta saved

169 .
170 . **INTERACTION by Race**
171 .
172 .
173 . //ANALYSIS B//
174 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGra

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        200
                                                Average RVI       =     0.0329
                                                Largest FMI       =     0.3254
                                                Complete DF       =        185
DF adjustment:   Small sample                   DF:     min       =      34.00
                                                        avg       =     165.64
                                                        max       =     182.98
Model F test:       Equal FMI                   F(  13,  182.0)   =      11.39
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-59.2947	63.13528	-0.94	0.349	-183.8712	65.28177
Race						
AfrAm	-147.988	177.152	-0.84	0.405	-497.6294	201.6534
Race#c.LnNFLw1						
AfrAm	51.31331	86.44225	0.59	0.554	-119.2717	221.8983
Sex	-49.02419	71.17781	-0.69	0.492	-189.5746	91.52624
w1Age	-5.038841	2.953859	-1.71	0.090	-10.86705	.7893666
Race	0	(omitted)				
PovStat	-78.72942	49.31025	-1.60	0.112	-176.0203	18.56149
TIME_V1SCAN	.0028481	.0358701	0.08	0.937	-.0679255	.0736218
w1BMI	.1911151	3.572507	0.05	0.957	-6.857511	7.239741
w1Creatinine	-7.395116	133.8305	-0.06	0.956	-279.3711	264.5809
w1USpecGrav	-2163.499	3614.241	-0.60	0.550	-9300.565	4973.566
w1BUN	10.16165	6.389524	1.59	0.114	-2.460798	22.78411
w1ALP	-.6922936	1.037262	-0.67	0.505	-2.738861	1.354273
w1UricAcid	-5.055964	18.50976	-0.27	0.785	-41.57756	31.46563
ICV_volM2	.0017741	.0002193	8.09	0.000	.0013414	.0022068
_cons	3853.616	3663.7	1.05	0.294	-3381.296	11088.53

175 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGr

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 200
		Average RVI	= 0.0144
		Largest FMI	= 0.1492
		Complete DF	= 185
DF adjustment:	Small sample	DF: min	= 89.15
		avg	= 173.21
		max	= 183.00
Model F test:	Equal FMI	F(13, 182.8)	= 14.40
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-61.59938	63.41271	-0.97	0.333	-186.7163	63.51758
Race						
AfrAm	-164.3199	176.9449	-0.93	0.354	-513.4586	184.8187
Race#c.LnNFLw1						
AfrAm	58.97453	86.5525	0.68	0.497	-111.8016	229.7507
Sex	-125.5599	70.77754	-1.77	0.078	-265.2334	14.11366
w1Age	-3.237314	2.970235	-1.09	0.277	-9.097678	2.62305
Race	0	(omitted)				
PovStat	-61.79067	49.6382	-1.24	0.215	-159.728	36.14663
TIME_V1SCAN	.0300347	.0361242	0.83	0.407	-.0412401	.1013096
w1BMI	1.140001	3.598246	0.32	0.752	-5.959419	8.23942
w1Creatinine	25.13627	122.0372	0.21	0.837	-217.3434	267.6159
w1USpecGrav	309.5174	3630.122	0.09	0.932	-6857.726	7476.761
w1BUN	12.14221	6.326284	1.92	0.057	-.343046	24.62747
w1ALP	-.1016612	1.044363	-0.10	0.923	-2.162231	1.958909
w1UricAcid	-8.550749	18.61339	-0.46	0.647	-45.27582	28.17432
ICV_volM2	.002164	.0002209	9.80	0.000	.0017283	.0025998
_cons	949.8222	3678.634	0.26	0.797	-6313.234	8212.878

```
176 .
177 . //ANALYSIS C//
178 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
```

Multiple-imputation estimates		Imputations	= **5**
Linear regression		Number of obs	= **197**
		Average RVI	= **0.0011**
		Largest FMI	= **0.0123**
		Complete DF	= **182**
DF adjustment: **Small sample**		DF: min	= **176.76**
		avg	= **179.69**
		max	= **180.02**
Model F test: **Equal FMI**		F(**13**, **180.0**)	= **1.85**
Within VCE type: **OLS**		Prob > F	= **0.0393**

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	**2.090425**	**.7852294**	**2.66**	**0.008**	**.5409864**	**3.639863**
Race						
AfrAm	**1.318659**	**2.157118**	**0.61**	**0.542**	**-2.93784**	**5.575157**
Race#c.LnNFLw1						
AfrAm	**-.0412461**	**1.057892**	**-0.04**	**0.969**	**-2.128713**	**2.046221**
Sex	**.1738554**	**.8784532**	**0.20**	**0.843**	**-1.559549**	**1.907259**
w1Age	**.0047742**	**.0372467**	**0.13**	**0.898**	**-.0687223**	**.0782707**
Race	**0**	(omitted)				
PovStat	**.8154874**	**.6073149**	**1.34**	**0.181**	**-.3828848**	**2.01386**
TIME_V1SCAN	**-.0005118**	**.0004372**	**-1.17**	**0.243**	**-.0013746**	**.000351**
w1BMI	**.0350196**	**.0443423**	**0.79**	**0.431**	**-.052478**	**.1225171**
w1Creatinine	**.2592385**	**1.398472**	**0.19**	**0.853**	**-2.500612**	**3.019089**
w1USpecGrav	**25.8844**	**43.6679**	**0.59**	**0.554**	**-60.28369**	**112.0525**
w1BUN	**.0458527**	**.07789**	**0.59**	**0.557**	**-.1078434**	**.1995487**
w1ALP	**-.0041223**	**.0126875**	**-0.32**	**0.746**	**-.0291576**	**.0209131**
w1UricAcid	**.0554629**	**.2353708**	**0.24**	**0.814**	**-.4089782**	**.5199041**
ICV_volM2	**2.18e-06**	**2.70e-06**	**0.81**	**0.422**	**-3.16e-06**	**7.51e-06**
_cons	**-30.70183**	**44.17127**	**-0.70**	**0.488**	**-117.8633**	**56.45962**

```
179 .
180 . save, replace
    file finaldata_imputed.dta saved

181 .
182 .
183 . //ANALYSIS B//
184 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
```

Multiple-imputation estimates		Imputations	= **5**
Linear regression		Number of obs	= **200**
		Average RVI	= **0.0333**
		Largest FMI	= **0.3094**
		Complete DF	= **186**
		DF: min	= **36.74**
		avg	= **166.80**
DF adjustment: **Small sample**		max	= **183.97**
		F(12, .)	= .
Within VCE type: **OLS**		Prob > F	= .

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-37.25832	50.88558	-0.73	0.465	-137.6533	63.1367
Sex	-43.57278	70.24163	-0.62	0.536	-182.245	95.09944
w1Age	-5.060419	2.949241	-1.72	0.088	-10.87934	.7584995
Race	-47.71295	51.06917	-0.93	0.351	-148.4815	53.05563
PovStat	-79.51262	49.20706	-1.62	0.108	-176.5964	17.57113
TIME_V1SCAN	.0020168	.0357846	0.06	0.955	-.0685856	.0726193
w1BMI	.0910275	3.562295	0.03	0.980	-6.937188	7.119243
w1Creatinine	-19.32324	130.2101	-0.15	0.883	-283.2165	244.57
w1USpecGrav	-2302.201	3598.888	-0.64	0.523	-9408.514	4804.112
w1BUN	10.13172	6.37474	1.59	0.114	-2.460543	22.72398
w1ALP	-.6707219	1.034622	-0.65	0.518	-2.712003	1.370559
w1UricAcid	-4.39417	18.4413	-0.24	0.812	-40.77925	31.99091
ICV_volM2	.0017535	.0002162	8.11	0.000	.0013269	.00218
_cons	4028.771	3647.103	1.10	0.271	-3172.847	11230.39

185 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 200
Average RVI = 0.0144
Largest FMI = 0.1379
Complete DF = 186
DF: min = 95.90
avg = 174.17
DF adjustment: **Small sample** max = 183.99
F(12, .) = .
Within VCE type: **OLS** Prob > F = .

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-36.25761	51.24757	-0.71	0.480	-137.3664	64.8512
Sex	-119.2986	69.98962	-1.70	0.090	-257.4069	18.80963
w1Age	-3.263323	2.965383	-1.10	0.273	-9.113898	2.587253
Race	-49.09547	51.25277	-0.96	0.339	-150.2175	52.02658
PovStat	-62.7007	49.54821	-1.27	0.207	-160.4569	35.05548
TIME_V1SCAN	.029086	.0360391	0.81	0.421	-.0420182	.1001902
w1BMI	1.027243	3.588663	0.29	0.775	-6.052998	8.107483
w1Creatinine	11.48583	119.2375	0.10	0.923	-225.2017	248.1734
w1USpecGrav	149.8604	3617.669	0.04	0.967	-6992.603	7292.324
w1BUN	12.10546	6.314764	1.92	0.057	-.3564548	24.56737
w1ALP	-.0762213	1.041921	-0.07	0.942	-2.131892	1.979449
w1UricAcid	-7.78575	18.55129	-0.42	0.675	-44.38693	28.81543
ICV_volM2	.0021403	.0002178	9.83	0.000	.0017106	.0025699
_cons	1145.604	3665.283	0.31	0.755	-6090.861	8382.068

186 .
187 . //ANALYSIS C//

```
188 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        197
                                                Average RVI       =     0.0012
                                                Largest FMI       =     0.0122
                                                Complete DF       =        183
                                                DF:     min       =     177.77
                                                        avg       =     180.68
DF adjustment:   Small sample                   max               =     181.02
                                                F(  12,       .)  =          .
Within VCE type:          OLS                   Prob > F          =          .
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.072196	.62909	3.29	0.001	.8309037	3.313489
Sex	.1699732	.8703758	0.20	0.845	-1.547427	1.887373
w1Age	.0048196	.0371251	0.13	0.897	-.0684342	.0780735
Race	1.238204	.6245621	1.98	0.049	.0058438	2.470564
PovStat	.815802	.6055982	1.35	0.180	-.3791381	2.010742
TIME_V1SCAN	-.0005111	.0004357	-1.17	0.242	-.0013707	.0003486
w1BMI	.0351251	.0441332	0.80	0.427	-.0519567	.1222069
w1Creatinine	.2674628	1.377196	0.19	0.846	-2.450293	2.985219
w1USpecGrav	26.0112	43.42633	0.60	0.550	-59.67694	111.6993
w1BUN	.0457958	.0776599	0.59	0.556	-.1074404	.1990321
w1ALP	-.0041418	.0126438	-0.33	0.744	-.02909	.0208065
w1UricAcid	.0548518	.2341912	0.23	0.815	-.4072445	.5169482
ICV_volM2	2.19e-06	2.67e-06	0.82	0.411	-3.06e-06	7.45e-06
_cons	-32.05637	43.9169	-0.73	0.466	-118.7125	54.59981

```
189 .
190 . save, replace
    file finaldata_imputed.dta saved

191 .
192 . ***********MODEL 5: MODEL2+OXIDATIVE STRESS******
193 .
194 .
195 . //AFRICAN-AMERICAN//
196 .
197 . use finaldata_imputed,clear

198 .
199 .
200 . //ANALYSIS B//
201 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         81
                                                Average RVI       =     0.0849
                                                Largest FMI       =     0.5101
                                                Complete DF       =         70
DF adjustment:   Small sample                   DF:     min       =      12.74
                                                        avg       =      61.89
                                                        max       =      67.89
Model F test:       Equal FMI                   F(  10,   66.8)   =       5.59
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	26.96436	79.13403	0.34	0.734	-130.9947	184.9235
Sex	-48.11094	85.2136	-0.56	0.574	-218.1616	121.9397
w1Age	-9.076089	4.603364	-1.97	0.053	-18.26509	.1129099
Race	0	(omitted)				
PovStat	-193.7874	77.97428	-2.49	0.015	-349.4269	-38.14789
TIME_V1SCAN	.0202175	.0628262	0.32	0.749	-.1053355	.1457704
w1BMI	.7466461	5.89283	0.13	0.900	-11.01458	12.50788
w1TotalD	-.5737482	6.452568	-0.09	0.931	-14.54254	13.39505
w1Albumin	178.3093	119.2281	1.50	0.139	-59.61612	416.2347
w1EosinPct	-.1228362	18.34327	-0.01	0.995	-36.72734	36.48166
ICV_volM2	.0017414	.0003417	5.10	0.000	.0010593	.0024236
_cons	1043.56	710.9811	1.47	0.147	-375.276	2462.396

```
202 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct
```

```
Multiple-imputation estimates                 Imputations       =          5
Linear regression                             Number of obs     =         81
                                              Average RVI       =     0.0738
                                              Largest FMI       =     0.4659
                                              Complete DF       =         70
DF adjustment:   Small sample                 DF:     min       =      14.70
                                                      avg       =      61.75
                                                      max       =      67.85
Model F test:       Equal FMI                 F(  10,   67.0)   =       6.49
Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	7.870859	74.8549	0.11	0.917	-141.5278	157.2695
Sex	-63.38945	81.01418	-0.78	0.437	-225.0789	98.30004
w1Age	-6.478337	4.389327	-1.48	0.145	-15.24318	2.286511
Race	0	(omitted)				
PovStat	-175.4752	73.80169	-2.38	0.020	-322.7722	-28.17827
TIME_V1SCAN	.0281615	.0596123	0.47	0.638	-.090977	.1472999
w1BMI	-2.977363	5.611696	-0.53	0.597	-14.18014	8.225411
w1TotalD	-3.34465	5.903467	-0.57	0.580	-15.94984	9.260545
w1Albumin	170.0126	113.4833	1.50	0.139	-56.48806	396.5133
w1EosinPct	1.558466	17.39851	0.09	0.929	-33.16114	36.27807
ICV_volM2	.0018706	.0003244	5.77	0.000	.0012229	.0025182
_cons	1227.868	676.0348	1.82	0.074	-121.4017	2577.138

```
203 .
204 . //ANALYSIS C//
205 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct I
```

```
Multiple-imputation estimates                 Imputations       =          5
Linear regression                             Number of obs     =         80
                                              Average RVI       =     0.0141
                                              Largest FMI       =     0.1269
                                              Complete DF       =         69
DF adjustment:   Small sample                 DF:     min       =      49.19
                                                      avg       =      65.27
                                                      max       =      67.04
Model F test:       Equal FMI                 F(  10,   67.0)   =       1.80
Within VCE type:          OLS                 Prob > F          =     0.0779
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.050945	.8410706	2.44	0.017	.3721324	3.729757
Sex	.7676167	.926282	0.83	0.410	-1.081268	2.616501
w1Age	-.0043154	.049404	-0.09	0.931	-.102937	.0943062
Race	0	(omitted)				
PovStat	-.3952118	.8294862	-0.48	0.635	-2.050906	1.260483
TIME_V1SCAN	-.0004985	.00066	-0.76	0.453	-.0018161	.0008191
w1BMI	.0736815	.0627682	1.17	0.245	-.0516063	.1989694
w1TotalD	.0173761	.0544181	0.32	0.751	-.0919703	.1267225
w1Albumin	-.6458137	1.295888	-0.50	0.620	-3.232416	1.940788
w1EosinPct	.0734438	.1977952	0.37	0.712	-.3213529	.4682405
ICV_volM2	3.65e-06	3.63e-06	1.00	0.319	-3.61e-06	.0000109
_cons	-1.641701	7.714438	-0.21	0.832	-17.03966	13.75626

```
206 .
207 . save, replace
    file finaldata_imputed.dta saved

208 .
209 .
210 .
211 . //WHITE//
212 .
213 . use finaldata_imputed,clear

214 .
215 .
216 .
217 . //ANALYSIS B//
218 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct

    Multiple-imputation estimates                   Imputations       =          5
    Linear regression                               Number of obs     =        119
                                                    Average RVI       =     0.0101
                                                    Largest FMI       =     0.0683
                                                    Complete DF       =        108
    DF adjustment:   Small sample                   DF:     min       =      89.78
                                                            avg       =     103.98
                                                            max       =     106.03
    Model F test:       Equal FMI                   F(  10,  106.0)   =       7.18
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-45.03035	73.57068	-0.61	0.542	-190.8984	100.8376
Sex	-78.56227	84.45239	-0.93	0.354	-245.9978	88.87326
w1Age	-1.96392	3.989902	-0.49	0.624	-9.874265	5.946425
Race	0	(omitted)				
PovStat	-21.0366	68.03172	-0.31	0.758	-155.9161	113.8429
TIME_V1SCAN	.0286813	.0475592	0.60	0.548	-.0656099	.1229726
w1BMI	3.978376	4.629027	0.86	0.392	-5.199329	13.15608
w1TotalD	.9692221	3.147587	0.31	0.759	-5.28422	7.222664
w1Albumin	115.3072	125.4574	0.92	0.360	-133.4291	364.0435
w1EosinPct	.8073337	14.82676	0.05	0.957	-28.60562	30.22029
ICV_volM2	.0018605	.0002904	6.41	0.000	.0012848	.0024362
_cons	692.9637	775.1719	0.89	0.373	-843.8863	2229.814

```
219 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 119
Average RVI = 0.0121
Largest FMI = 0.0787
Complete DF = 108
DF adjustment: **Small sample** — DF: min = 86.36
avg = 103.35
max = 106.05
Model F test: **Equal FMI** — F(10, 106.0) = 9.61
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-41.76381	74.93336	-0.56	0.578	-190.3322	106.8046
Sex	-189.5492	86.01555	-2.20	0.030	-360.0825	-19.01593
w1Age	.8736052	4.065979	0.21	0.830	-7.187612	8.934822
Race	0	(omitted)				
PovStat	6.95772	69.31599	0.10	0.920	-130.468	144.3835
TIME_V1SCAN	.0597269	.0484659	1.23	0.221	-.0363625	.1558164
w1BMI	7.016551	4.717289	1.49	0.140	-2.336202	16.3693
w1TotalD	-.2498373	3.223527	-0.08	0.938	-6.657617	6.157943
w1Albumin	73.08633	127.8702	0.57	0.569	-180.436	326.6087
w1EosinPct	8.598594	15.20416	0.57	0.573	-21.57581	38.773
ICV_volM2	.002463	.0002958	8.33	0.000	.0018765	.0030495
_cons	200.4744	789.78	0.25	0.800	-1365.337	1766.286

```
220 .
221 . //ANALYSIS C//
222 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct I
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 117
Average RVI = 0.0064
Largest FMI = 0.0499
Complete DF = 106
DF adjustment: **Small sample** — DF: min = 93.82
avg = 102.93
max = 103.99
Model F test: **Equal FMI** — F(10, 104.0) = 1.70
Within VCE type: **OLS** — Prob > F = 0.0902

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	3.060656	.9691368	3.16	0.002	1.138725	4.982587
Sex	-.3556188	1.074022	-0.33	0.741	-2.485514	1.774276
w1Age	-.0243922	.0525264	-0.46	0.643	-.1285542	.0797698
Race	0	(omitted)				
PovStat	1.634663	.8750523	1.87	0.065	-.100608	3.369934
TIME_V1SCAN	-.0003841	.0006057	-0.63	0.527	-.0015853	.0008172
w1BMI	.0657997	.0598155	1.10	0.274	-.0528176	.184417
w1TotalD	-.0329273	.0397436	-0.83	0.409	-.1118412	.0459866
w1Albumin	2.78678	1.612601	1.73	0.087	-.4112068	5.984768
w1EosinPct	.0900246	.1857617	0.48	0.629	-.2783482	.4583974
ICV_volM2	2.21e-06	3.68e-06	0.60	0.549	-5.09e-06	9.51e-06
_cons	-17.07175	9.965539	-1.71	0.090	-36.83405	2.690545

```
223 .
224 . save, replace
    file finaldata_imputed.dta saved

225 .
226 .
227 . **********INTERACTION by Race***************
228 .
229 .
230 .
231 . //ANALYSIS B//
232 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1E

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        200
                                                  Average RVI       =     0.0240
                                                  Largest FMI       =     0.2244
                                                  Complete DF       =        187
    DF adjustment:   Small sample                 DF:     min       =      57.33
                                                          avg       =     173.96
                                                          max       =     185.01
    Model F test:       Equal FMI                 F(  12,  184.5)   =      12.55
    Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |  -22.00302    62.7474    -0.35   0.726    -145.8021    101.7961
               |
          Race |
        AfrAm  |  -116.1883    171.968    -0.68   0.500    -455.4661    223.0894
               |
Race#c.LnNFLw1 |
        AfrAm  |     26.825   84.09028     0.32   0.750    -139.0745    192.7245
               |
           Sex |  -59.00247   59.27981    -1.00   0.321    -175.9541    57.94919
         w1Age |  -4.728588   2.797887    -1.69   0.093    -10.24845    .7912774
          Race |          0  (omitted)
       PovStat |  -85.3275   49.13971    -1.74   0.084    -182.2771    11.62211
   TIME_V1SCAN |  .0142363    .036427     0.39   0.696    -.0576348    .0861074
         w1BMI |  1.963872   3.491773     0.56   0.575    -4.925146    8.852889
       w1TotalD |  .0967476   2.741522     0.04   0.972    -5.392361    5.585856
      w1Albumin |  147.8502   85.61859     1.73   0.086    -21.06603    316.7664
     w1EosinPct |  1.033791   11.33438     0.09   0.927    -21.33508    23.40266
      ICV_volM2 |   .001748   .0002144     8.15   0.000     .0013251    .0021709
          _cons |  954.2679   534.2421     1.79   0.076    -99.72767    2008.264
------------------------------------------------------------------------------

233 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        200
                                                  Average RVI       =     0.0118
                                                  Largest FMI       =     0.0934
                                                  Complete DF       =        187
    DF adjustment:   Small sample                 DF:     min       =     126.52
                                                          avg       =     179.08
                                                          max       =     184.98
    Model F test:       Equal FMI                 F(  12,  184.9)   =      15.40
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-8.227394	63.39585	-0.13	0.897	-133.3009	116.8461
Race						
AfrAm	-137.8579	174.121	-0.79	0.430	-481.3834	205.6675
Race#c.LnNFLw1						
AfrAm	25.7448	85.17084	0.30	0.763	-142.2873	193.7769
Sex	-126.4024	60.01867	-2.11	0.037	-244.8116	-7.993141
w1Age	-2.888947	2.834153	-1.02	0.309	-8.480396	2.702502
Race	0	(omitted)				
PovStat	-70.02834	49.70299	-1.41	0.161	-168.0875	28.03083
TIME_V1SCAN	.0350211	.0368039	0.95	0.343	-.0375903	.1076325
w1BMI	2.417376	3.530984	0.68	0.494	-4.548856	9.383608
w1TotalD	-1.963567	2.590745	-0.76	0.450	-7.090371	3.163238
w1Albumin	113.874	86.62685	1.31	0.190	-57.02956	284.7776
w1EosinPct	6.391425	11.53654	0.55	0.580	-16.38217	29.16502
ICV_volM2	.0021471	.000217	9.89	0.000	.0017189	.0025753
_cons	809.9582	540.7956	1.50	0.136	-256.9629	1876.879

```
234 .
235 . //ANALYSIS C//
236 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1Eo

Multiple-imputation estimates                 Imputations       =          5
Linear regression                             Number of obs     =        197
                                              Average RVI       =     0.0085
                                              Largest FMI       =     0.0946
                                              Complete DF       =        184
DF adjustment:   Small sample                 DF:     min       =     124.05
                                                      avg       =     177.35
                                                      max       =     182.02
Model F test:       Equal FMI                 F(  12,  181.9)   =       2.08
Within VCE type:          OLS                 Prob > F          =     0.0204
```

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.356759	.7857326	3.00	0.003	.806382	3.907136
Race						
AfrAm	1.606879	2.104037	0.76	0.446	-2.544571	5.758328
Race#c.LnNFLw1						
AfrAm	-.2165997	1.03596	-0.21	0.835	-2.260644	1.827444
Sex	.3021771	.7269999	0.42	0.678	-1.13226	1.736614
w1Age	.0068632	.034861	0.20	0.844	-.0619204	.0756469
Race	0	(omitted)				
PovStat	.76121	.6033813	1.26	0.209	-.4293181	1.951738
TIME_V1SCAN	-.0004485	.0004425	-1.01	0.312	-.0013216	.0004245
w1BMI	.0638257	.0428789	1.49	0.138	-.0207786	.1484301
w1TotalD	-.0098155	.031215	-0.31	0.754	-.0715986	.0519675
w1Albumin	1.148852	1.057352	1.09	0.279	-.9374057	3.235111
w1EosinPct	.1297388	.1367343	0.95	0.344	-.1400502	.3995277
ICV_volM2	1.95e-06	2.61e-06	0.75	0.457	-3.20e-06	7.10e-06
_cons	-9.989937	6.574482	-1.52	0.130	-22.96194	2.982066

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

. 
. 
. 
. **********MODEL 6: MODEL 2+lifestyle/health-related factors*******
. 
. 
. 
. //AFRICAN-AMERICAN//
. 
. 
. use finaldata_imputed,clear

. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         81
                                                Average RVI       =     0.0050
                                                Largest FMI       =     0.0237
                                                Complete DF       =         71
DF adjustment:   Small sample                   DF:     min       =      66.99
                                                        avg       =      68.69
                                                        max       =      69.07
Model F test:       Equal FMI                   F(   9,   69.1)   =       6.83
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   52.79532   81.05351     0.65   0.517    -108.9108    214.5014
         Sex |    -31.564   83.34489    -0.38   0.706    -197.8295    134.7015
       w1Age |   -10.5986   4.571472    -2.32   0.023     -19.7192   -1.477997
        Race |          0  (omitted)
     PovStat |  -208.4351   77.10842    -2.70   0.009    -362.2684   -54.60187
 TIME_V1SCAN |   .0128306   .0585855     0.22   0.827    -.1040518    .129713
       w1BMI |  -.6015527   5.646433    -0.11   0.915    -11.86614    10.66304
 w1currdrugs |  -113.0032   72.41868    -1.56   0.123    -257.5519    31.54537
       w1SRH |  -32.47239   41.89588    -0.78   0.441     -116.055    51.11022
   ICV_volM2 |    .001838   .0003342     5.50   0.000     .0011712    .0025048
       _cons |   1857.287   456.8583     4.07   0.000      945.893    2768.681
------------------------------------------------------------------------------

. mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         81
                                                Average RVI       =     0.0044
                                                Largest FMI       =     0.0137
                                                Complete DF       =         71
DF adjustment:   Small sample                   DF:     min       =      68.03
                                                        avg       =      68.80
                                                        max       =      69.07
Model F test:       Equal FMI                   F(   9,   69.1)   =       7.69
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	31.73023	77.19758	0.41	0.682	-122.2796	185.7401
Sex	-44.14066	79.42456	-0.56	0.580	-202.5855	114.3042
w1Age	-8.475706	4.35457	-1.95	0.056	-17.1634	.2119921
Race	0	(omitted)				
PovStat	-185.1999	73.46523	-2.52	0.014	-331.7637	-38.63624
TIME_V1SCAN	.0319127	.0558638	0.57	0.570	-.0795426	.1433679
w1BMI	-4.095473	5.38087	-0.76	0.449	-14.83027	6.639324
w1currdrugs	-110.9852	68.67527	-1.62	0.111	-248.0233	26.05288
w1SRH	-17.85534	39.93514	-0.45	0.656	-97.52704	61.81636
ICV_volM2	.0019204	.0003185	6.03	0.000	.001285	.0025557
_cons	1978.866	435.3747	4.55	0.000	1110.33	2847.403

```
255 .
256 . //ANALYSIS C//
257 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if R
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 80
Average RVI = 0.0017
Largest FMI = 0.0119
Complete DF = 70
DF adjustment: **Small sample** — DF: min = 67.22
avg = 67.97
max = 68.08
Model F test: **Equal FMI** — F(9, 68.1) = 2.36
Within VCE type: **OLS** — Prob > F = 0.0221

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	1.683195	.8528114	1.97	0.052	-.0185549	3.384945
Sex	.8386885	.8872528	0.95	0.348	-.9317587	2.609136
w1Age	.014372	.048293	0.30	0.767	-.0819937	.1107377
Race	0	(omitted)				
PovStat	-.4175169	.8115122	-0.51	0.609	-2.03683	1.201797
TIME_V1SCAN	-.0006183	.0006177	-1.00	0.320	-.0018508	.0006143
w1BMI	.0822632	.0594609	1.38	0.171	-.0363872	.2009136
w1currdrugs	.4615092	.7605662	0.61	0.546	-1.056497	1.979516
w1SRH	-.6670958	.4413241	-1.51	0.135	-1.547737	.2135449
ICV_volM2	4.37e-06	3.54e-06	1.24	0.221	-2.69e-06	.0000114
_cons	-3.844965	4.820451	-0.80	0.428	-13.46383	5.773897

```
258 .
259 . save, replace
file finaldata_imputed.dta saved

260 .
261 .
```

```
. 
. //WHITES//
. 
. use finaldata_imputed,clear

. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 119
Average RVI = 0.0051
Largest FMI = 0.0393
Complete DF = 109
DF adjustment: Small sample — DF: min = 99.38
avg = 106.16
max = 107.02
Model F test: Equal FMI — F(9, 107.0) = 8.01
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-65.77468	71.30482	-0.92	0.358	-207.1315	75.58218
Sex	-53.89138	81.93871	-0.66	0.512	-216.326	108.5432
w1Age	-1.368479	4.027692	-0.34	0.735	-9.353067	6.616109
Race	0	(omitted)				
PovStat	-28.35708	70.87702	-0.40	0.690	-168.8627	112.1486
TIME_V1SCAN	.0237825	.0481839	0.49	0.623	-.0717389	.1193039
w1BMI	2.335288	4.366467	0.53	0.594	-6.320837	10.99141
w1currdrugs	51.95714	84.53373	0.61	0.540	-115.7681	219.6824
w1SRH	-18.81498	40.80678	-0.46	0.646	-99.7095	62.07953
ICV_volM2	.0018458	.0002897	6.37	0.000	.0012715	.0024202
_cons	1322.831	457.5077	2.89	0.005	415.8741	2229.787

```
. mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 119
Average RVI = 0.0079
Largest FMI = 0.0650
Complete DF = 109
DF adjustment: Small sample — DF: min = 91.64
avg = 105.37
max = 107.04
Model F test: Equal FMI — F(9, 107.0) = 10.84
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-69.98175	72.46297	-0.97	0.336	-213.6341	73.67058
Sex	-172.6985	83.27819	-2.07	0.041	-337.7884	-7.608657
w1Age	1.698971	4.095466	0.41	0.679	-6.420069	9.818011
Race	0	(omitted)				
PovStat	-3.211876	72.03591	-0.04	0.965	-146.0148	139.5911
TIME_V1SCAN	.0640992	.0489585	1.31	0.193	-.0329571	.1611554
w1BMI	5.788114	4.440305	1.30	0.195	-3.014507	14.59073
w1currdrugs	40.45056	87.01603	0.46	0.643	-132.3799	213.281
w1SRH	-30.24451	41.47382	-0.73	0.467	-112.4613	51.97228
ICV_volM2	.0024606	.0002944	8.36	0.000	.001877	.0030443
_cons	636.1527	465.1671	1.37	0.174	-285.9957	1558.301

```
271 .
272 . //ANALYSIS C//
273 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if R

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        117
                                                Average RVI       =     0.0025
                                                Largest FMI       =     0.0090
                                                Complete DF       =        107
DF adjustment:   Small sample                   DF:     min       =     103.98
                                                        avg       =     104.82
                                                        max       =     105.03
Model F test:       Equal FMI                   F(   9,  105.0)   =       1.56
Within VCE type:          OLS                   Prob > F          =     0.1368

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw1 |   2.657083   .9639268     2.76   0.007     .7457385    4.568428
         Sex |   .0501591   1.052932     0.05   0.962    -2.037623    2.137941
       w1Age |  -.0267825   .0538411    -0.50   0.620    -.1335391    .0799741
        Race |          0  (omitted)
     PovStat |   1.820711   .9140025     1.99   0.049     .0084093    3.633013
  TIME_V1SCAN |  -.0005051    .000619    -0.82   0.416    -.0017324    .0007223
       w1BMI |   .0222677   .0565021     0.39   0.694    -.0897652    .1343006
  w1currdrugs |  -1.017487   1.071573    -0.95   0.345    -3.142463    1.107489
       w1SRH |   .0503166   .5307985     0.09   0.925    -1.002159    1.102792
    ICV_volM2 |   1.48e-06   3.71e-06     0.40   0.691    -5.88e-06    8.84e-06
        _cons |  -2.823941   5.860016    -0.48   0.631     -14.4433    8.795416
------------------------------------------------------------------------------

274 .
275 . save, replace
file finaldata_imputed.dta saved

276 .
277 . ******************INTERACTION by Race**********************
278 .
279 .
280 . //ANALYSIS B//
281 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        200
                                                Average RVI       =     0.0041
                                                Largest FMI       =     0.0427
                                                Complete DF       =        188
DF adjustment:   Small sample                   DF:     min       =     165.71
                                                        avg       =     184.25
                                                        max       =     186.03
Model F test:       Equal FMI                   F(  11,  186.0)   =      13.69
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-48.64755	61.80221	-0.79	0.432	-170.571	73.27586
Race						
AfrAm	-156.8686	170.8386	-0.92	0.360	-493.9001	180.1629
Race#c.LnNFLw1						
AfrAm	45.24384	84.56615	0.54	0.593	-121.5897	212.0774
Sex	-43.29876	58.27456	-0.74	0.458	-158.2629	71.66537
w1Age	-4.576957	2.845275	-1.61	0.109	-10.19013	1.036216
Race	0	(omitted)				
PovStat	-92.57277	49.93564	-1.85	0.065	-191.0857	5.940183
TIME_V1SCAN	.0097324	.0359059	0.27	0.787	-.0611029	.0805678
w1BMI	-.3349783	3.319264	-0.10	0.920	-6.883265	6.213309
w1currdrugs	-24.58969	55.69981	-0.44	0.659	-134.5624	85.38307
w1SRH	-26.2041	28.61596	-0.92	0.361	-82.65769	30.24949
ICV_volM2	.0017648	.0002161	8.17	0.000	.0013386	.0021911
_cons	1753.465	326.0792	5.38	0.000	1110.173	2396.758

282 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 200
		Average RVI	= 0.0061
		Largest FMI	= 0.0629
		Complete DF	= 188
DF adjustment:	Small sample	DF: min	= 150.65
		avg	= 182.95
		max	= 186.02
Model F test:	Equal FMI	F(11, 186.0)	= 16.80
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-42.25704	62.4035	-0.68	0.499	-165.3668	80.85271
Race						
AfrAm	-162.3819	172.5124	-0.94	0.348	-502.7162	177.9524
Race#c.LnNFLw1						
AfrAm	45.28748	85.40826	0.53	0.597	-123.2081	213.7831
Sex	-111.3459	58.84642	-1.89	0.060	-227.4384	4.746595
w1Age	-2.720525	2.872763	-0.95	0.345	-8.387926	2.946877
Race	0	(omitted)				
PovStat	-74.67558	50.41835	-1.48	0.140	-174.1408	24.78967
TIME_V1SCAN	.0384326	.0362595	1.06	0.291	-.0331005	.1099657
w1BMI	.7237554	3.351797	0.22	0.829	-5.888727	7.336237
w1currdrugs	-32.95051	56.8094	-0.58	0.563	-145.1966	79.29554
w1SRH	-30.61871	28.89611	-1.06	0.291	-87.62507	26.38766
ICV_volM2	.0021592	.0002182	9.90	0.000	.0017289	.0025896
_cons	1418.804	329.2663	4.31	0.000	769.2231	2068.385

```
283 .
284 . //ANALYSIS C//
285 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_vo

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        197
                                                Average RVI       =     0.0004
                                                Largest FMI       =     0.0044
                                                Complete DF       =        185
DF adjustment:   Small sample                   DF:     min       =     182.11
                                                        avg       =     182.95
                                                        max       =     183.03
Model F test:       Equal FMI                   F(  11,  183.0)   =       2.12
Within VCE type:          OLS                   Prob > F          =     0.0207
```

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.070982	.780222	2.65	0.009	.5315961	3.610367
Race						
AfrAm	1.391277	2.095068	0.66	0.507	-2.742314	5.524868
Race#c.LnNFLw1						
AfrAm	-.1335466	1.040807	-0.13	0.898	-2.187071	1.919978
Sex	.510148	.7117305	0.72	0.474	-.8941033	1.914399
w1Age	.0107698	.0355435	0.30	0.762	-.0593578	.0808975
Race	0	(omitted)				
PovStat	.7623311	.610967	1.25	0.214	-.4431128	1.967775
TIME_V1SCAN	-.0004687	.000436	-1.07	0.284	-.0013289	.0003916
w1BMI	.0443721	.0405496	1.09	0.275	-.0356327	.1243769
w1currdrugs	-.0525179	.6658194	-0.08	0.937	-1.36623	1.261195
w1SRH	-.2379911	.3502468	-0.68	0.498	-.9290313	.4530492
ICV_volM2	1.97e-06	2.63e-06	0.75	0.455	-3.22e-06	7.15e-06
_cons	-3.637088	3.957832	-0.92	0.359	-11.44593	4.171757

```
286 .
287 . save, replace
    file finaldata_imputed.dta saved

288 .
289 .
290 . ////////////////////////////////////////TABLE S5. LnNFLw3 exposure/////////////////////////////////////////////
    >
291 .
292 .
293 .
294 . **********************LnNFLw3, MODELS 1 AND 2*********************
295 .
296 .
297 . ********************AFRICAN-AMERICAN************************************************************
```

```
298 .
299 . **Model 1**
300 .
301 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

302 .
303 . //ANALYSIS B//
304 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	90
				F(6, 83)	=	11.23
Model	5004386.06	6	834064.343	Prob > F	=	0.0000
Residual	6162497.51	83	74246.9579	R-squared	=	0.4481
				Adj R-squared	=	0.4083
Total	11166883.6	89	125470.602	Root MSE	=	272.48

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-77.83375	51.05542	-1.52	0.131	-.1486809
Sex	23.78611	79.23054	0.30	0.765	.0334621
w1Age	-6.283734	3.733138	-1.68	0.096	-.1760947
Race	0	(omitted)			.
PovStat	-166.5409	70.02901	-2.38	0.020	-.2326336
TIME_V1SCAN	.00213	.0515212	0.04	0.967	.0037556
ICV_volM2	.0016211	.0003258	4.98	0.000	.552379
_cons	1993.452	420.9212	4.74	0.000	.

```
305 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	90
				F(6, 83)	=	11.98
Model	5358493.5	6	893082.251	Prob > F	=	0.0000
Residual	6184885.53	83	74516.6931	R-squared	=	0.4642
				Adj R-squared	=	0.4255
Total	11543379	89	129700.888	Root MSE	=	272.98

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-51.15552	51.14807	-1.00	0.320	-.0961123
Sex	-7.175124	79.37433	-0.09	0.928	-.0099279
w1Age	-6.847864	3.739913	-1.83	0.071	-.1887484
Race	0	(omitted)			.
PovStat	-157.201	70.1561	-2.24	0.028	-.2159764
TIME_V1SCAN	.0137028	.0516147	0.27	0.791	.0237627
ICV_volM2	.0018456	.0003264	5.65	0.000	.6185251
_cons	1952.534	421.6851	4.63	0.000	.

```
. 
. //ANALYSIS C//
. reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	125.029628	6	20.8382714	Number of obs	= 88
Residual	1230.90659	81	15.1963777	F(6, 81)	= 1.37
				Prob > F	= 0.2362
Total	1355.93622	87	15.5854738	R-squared	= 0.0922
				Adj R-squared	= 0.0250
				Root MSE	= 3.8983

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	.1634156	.7404861	0.22	0.826	.0276807
Sex	.0910418	1.150313	0.08	0.937	.0114883
w1Age	.0786772	.0537296	1.46	0.147	.1966781
Race	0	(omitted)			.
PovStat	-1.151197	1.01205	-1.14	0.259	-.1447687
TIME_V1SCAN	-.0001397	.0007394	-0.19	0.851	-.0222658
ICV_volM2	1.20e-06	4.69e-06	0.25	0.799	.0367661
_cons	2.054261	6.041545	0.34	0.735	.

```
. 
. 
. **Model 2**
. 
. use finaldata_imputed,clear

. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 90
		Average RVI	= 0.0846
		Largest FMI	= 0.4460
		Complete DF	= 82
DF adjustment: Small sample		DF: min	= 16.60
		avg	= 70.67
		max	= 79.98
Model F test: Equal FMI		F(7, 77.2)	= 8.91
Within VCE type: OLS		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-86.58057	52.00977	-1.66	0.100	-190.1157	16.95458
Sex	11.43773	80.35522	0.14	0.887	-148.5098	171.3853
w1Age	-5.572734	3.817641	-1.46	0.148	-13.17324	2.027771
Race	0	(omitted)				
PovStat	-168.1413	69.84283	-2.41	0.018	-307.1336	-29.14901
TIME_V1SCAN	.0049888	.0515175	0.10	0.923	-.0975404	.1075179
w1BMI	-4.935434	5.946197	-0.83	0.418	-17.50406	7.633194
ICV_volM2	.0016516	.0003275	5.04	0.000	.0009999	.0023033
_cons	2098.813	438.3978	4.79	0.000	1225.302	2972.324

```
318 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         90
                                                Average RVI       =     0.1039
                                                Largest FMI       =     0.5021
                                                Complete DF       =         82
DF adjustment:   Small sample                   DF:     min       =      13.74
                                                        avg       =      69.90
                                                        max       =      79.95
Model F test:       Equal FMI                   F(   7,   76.0)   =       9.37
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw3 |  -60.73518   52.09126    -1.17   0.247    -164.4419    42.97157
         Sex |  -20.64857   80.42103    -0.26   0.798    -180.7345    139.4373
       w1Age |  -6.06781    3.825795    -1.59   0.117    -13.68556    1.549941
        Race |          0  (omitted)
     PovStat |  -158.9861   69.84154    -2.28   0.025    -297.9765   -19.99571
 TIME_V1SCAN |   .0167922   .0515247     0.33   0.745    -.0857525    .1193369
       w1BMI |  -5.411766    6.20996    -0.87   0.398    -18.75426    7.930725
   ICV_volM2 |   .0018791   .0003275     5.74   0.000     .0012273    .0025309
       _cons |   2067.889   440.4773     4.69   0.000     1189.856    2945.923
------------------------------------------------------------------------------

319 .
320 . //ANALYSIS C//
321 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         88
                                                Average RVI       =     0.1238
                                                Largest FMI       =     0.5549
                                                Complete DF       =         80
DF adjustment:   Small sample                   DF:     min       =      11.50
                                                        avg       =      67.73
                                                        max       =      78.00
Model F test:       Equal FMI                   F(   7,   72.9)   =       1.02
Within VCE type:          OLS                   Prob > F          =     0.4236

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw3 |   .1912383   .7636213     0.25   0.803      -1.3301    1.712576
         Sex |   .1225369   1.176348     0.10   0.917     -2.22035    2.465424
       w1Age |   .0765204    .055493     1.38   0.172    -.0340398    .1870806
        Race |          0  (omitted)
     PovStat |  -1.126926   1.014976    -1.11   0.270    -3.147589    .8937362
 TIME_V1SCAN |  -.0001528   .0007426    -0.21   0.838    -.0016313    .0013257
       w1BMI |   .0163555   .0938308     0.17   0.865    -.1890726    .2217836
   ICV_volM2 |   1.16e-06   4.77e-06     0.24   0.809    -8.34e-06    .0000107
       _cons |    1.62403   6.323829     0.26   0.798     -10.9805    14.22856
------------------------------------------------------------------------------
```

```
322 .
323 . save, replace
    file finaldata_imputed.dta saved

324 .
325 .
326 .
327 .
328 .
329 . ********************WHITE*****************************************************
330 .
331 . **Model 1**
332 .
333 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

334 .
335 . //ANALYSIS B//
336 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
    note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =       123
-------------+----------------------------------   F(6, 116)       =     15.16
       Model |  8641805.44         6  1440300.91   Prob > F        =    0.0000
    Residual |  11021049.2       116  95009.0446   R-squared       =    0.4395
-------------+----------------------------------   Adj R-squared   =    0.4105
       Total |  19662854.6       122  161170.939   Root MSE        =    308.24

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw3 |  -161.5124    61.0588    -2.65   0.009                -.2044254
         Sex |  -86.50687   75.26462    -1.15   0.253                -.1077472
       w1Age |  -1.896913   3.733302    -0.51   0.612                -.0389929
        Race |           0  (omitted)                                        .
     PovStat |  -40.79105   67.70386    -0.60   0.548                -.0442959
 TIME_V1SCAN |  -.0041602   .0425112    -0.10   0.922                -.0070506
   ICV_volM2 |   .0019432   .0002616     7.43   0.000                 .7091219
       _cons |   1607.868   378.9366     4.24   0.000                        .
------------------------------------------------------------------------------

337 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
    note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =       123
-------------+----------------------------------   F(6, 116)       =     17.84
       Model |  11278161.9         6  1879693.65   Prob > F        =    0.0000
    Residual |  12219770.7       116  105342.851   R-squared       =    0.4800
-------------+----------------------------------   Adj R-squared   =    0.4531
       Total |  23497932.6       122  192606.005   Root MSE        =    324.57

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw3 |  -108.5629   64.29368    -1.69   0.094                -.1256952
         Sex |  -153.4434   79.25213    -1.94   0.055                -.1748285
       w1Age |   -.511575   3.931091    -0.13   0.897                -.0096196
        Race |           0  (omitted)                                        .
     PovStat |  -6.402222    71.2908    -0.09   0.929                -.0063597
 TIME_V1SCAN |    .020352   .0447634     0.45   0.650                 .0315525
   ICV_volM2 |    .002407   .0002755     8.74   0.000                 .8035284
       _cons |   1089.432   399.0126     2.73   0.007                        .
------------------------------------------------------------------------------
```

```
. 
. //ANALYSIS C//
. reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if Race==1,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	121
				F(6, 114)	=	0.92
Model	88.4831307	6	14.7471885	Prob > F	=	0.4843
Residual	1829.86851	114	16.0514782	R-squared	=	0.0461
				Adj R-squared	=	-0.0041
Total	1918.35164	120	15.9862637	Root MSE	=	4.0064

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	.5412249	.8207356	0.66	0.511	.0674691
Sex	-.0393996	.9812657	-0.04	0.968	-.0049271
w1Age	.0606084	.0500271	1.21	0.228	.1236754
Race	0	(omitted)			.
PovStat	1.321153	.8944038	1.48	0.142	.1432774
TIME_V1SCAN	-.0001475	.000553	-0.27	0.790	-.0253116
ICV_volM2	2.78e-06	3.40e-06	0.82	0.416	.1021093
_cons	-3.750709	4.953759	-0.76	0.451	.

```
. 
. 
. **Model 2**
. 
. use finaldata_imputed,clear

. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 123
		Average RVI	= 0.0001
		Largest FMI	= 0.0007
		Complete DF	= 115
DF adjustment: Small sample		DF: min	= 113.01
		avg	= 113.04
		max	= 113.05
Model F test: Equal FMI		F(7, 113.1)	= 13.09
Within VCE type: OLS		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-152.3608	61.94445	-2.46	0.015	-275.0833	-29.63826
Sex	-76.03321	76.21644	-1.00	0.321	-227.0311	74.96464
w1Age	-1.798897	3.737884	-0.48	0.631	-9.204284	5.60649
Race	0	(omitted)				
PovStat	-36.18377	67.95196	-0.53	0.595	-170.8082	98.44068
TIME_V1SCAN	-.0004829	.0427457	-0.01	0.991	-.0851696	.0842038
w1BMI	3.982676	4.415444	0.90	0.369	-4.765106	12.73046
ICV_volM2	.0019334	.000262	7.38	0.000	.0014143	.0024526
_cons	1451.613	416.939	3.48	0.001	625.5849	2277.641

```
350 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        123
                                                Average RVI       =     0.0009
                                                Largest FMI       =     0.0073
                                                Complete DF       =        115
DF adjustment:   Small sample                   DF:     min       =     112.13
                                                        avg       =     112.90
                                                        max       =     113.05
Model F test:       Equal FMI                   F(   7,  113.0)   =      15.60
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-94.92075	64.99613	-1.46	0.147	-223.6893	33.84782
Sex	-137.81	79.97902	-1.72	0.088	-296.2628	20.64266
w1Age	-.3656274	3.921824	-0.09	0.926	-8.13543	7.404175
Race	0	(omitted)				
PovStat	.4532121	71.29544	0.01	0.995	-140.7952	141.7017
TIME_V1SCAN	.0258572	.0448591	0.58	0.565	-.0630169	.1147313
w1BMI	5.939542	4.647767	1.28	0.204	-3.269293	15.14838
ICV_volM2	.0023925	.0002749	8.70	0.000	.0018478	.0029372
_cons	856.3637	437.7418	1.96	0.053	-10.89128	1723.619

```
351 .
352 . //ANALYSIS C//
353 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Race==1

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        121
                                                Average RVI       =     0.0001
                                                Largest FMI       =     0.0013
                                                Complete DF       =        113
DF adjustment:   Small sample                   DF:     min       =     110.94
                                                        avg       =     111.03
                                                        max       =     111.05
Model F test:       Equal FMI                   F(   7,  111.1)   =       0.81
Within VCE type:          OLS                   Prob > F          =     0.5835
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.5882311	.8313572	0.71	0.481	-1.059151	2.235613
Sex	.0246735	.9967414	0.02	0.980	-1.950426	1.999773
w1Age	.0612427	.0502319	1.22	0.225	-.0382947	.1607801
Race	0	(omitted)				
PovStat	1.344475	.8993881	1.49	0.138	-.437714	3.126664
TIME_V1SCAN	-.0001243	.0005579	-0.22	0.824	-.0012298	.0009811
w1BMI	.0242082	.0579379	0.42	0.677	-.0906004	.1390167
ICV_volM2	2.72e-06	3.42e-06	0.80	0.427	-4.05e-06	9.49e-06
_cons	-4.684969	5.451645	-0.86	0.392	-15.48773	6.117792

```
354 .
355 . save, replace
    file finaldata_imputed.dta saved

356 .
357 .
358 .
359 . //INTERACTION by Race//
360 .
361 .
362 . //ANALYSIS B//
363 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        213
                                                  Average RVI       =     0.0238
                                                  Largest FMI       =     0.1903
                                                  Complete DF       =        203
    DF adjustment:   Small sample                 DF:     min       =      72.42
                                                          avg       =     186.82
                                                          max       =     200.98
    Model F test:       Equal FMI                 F(   9,  200.1)   =      19.73
    Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -151.4473   56.47005    -2.68   0.008    -262.8022   -40.09239
               |
          Race |
        AfrAm |   -202.503   161.7165    -1.25   0.212    -521.3827    116.3767
               |
Race#c.LnNFLw3 |
        AfrAm |   64.63203   70.65579     0.91   0.361     -74.6906    203.9547
               |
           Sex |  -32.25662   55.13015    -0.59   0.559    -140.9683    76.45506
         w1Age |  -3.598899   2.628181    -1.37   0.172    -8.781269    1.583471
          Race |          0  (omitted)
       PovStat |    -98.133   47.69902    -2.06   0.041    -192.1879   -4.07814
   TIME_V1SCAN |  -.0066589   .0323769    -0.21   0.837    -.0705008    .057183
         w1BMI |  -.1049891   3.501388    -0.03   0.976    -7.084194    6.874215
      ICV_volM2 |   .0017777   .0002003     8.87   0.000     .0013826    .0021727
          _cons |   1897.544   312.1337     6.08   0.000     1281.879    2513.208
------------------------------------------------------------------------------

364 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        213
                                                  Average RVI       =     0.0255
                                                  Largest FMI       =     0.2019
                                                  Complete DF       =        203
    DF adjustment:   Small sample                 DF:     min       =      67.47
                                                          avg       =     186.24
                                                          max       =     200.97
    Model F test:       Equal FMI                 F(   9,  200.0)   =      22.41
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-88.3631	58.75117	-1.50	0.134	-204.2167	27.49052
Race						
AfrAm	-111.3803	168.206	-0.66	0.509	-443.0561	220.2954
Race#c.LnNFLw3						
AfrAm	24.85043	73.49349	0.34	0.736	-120.0677	169.7686
Sex	-81.98062	57.35505	-1.43	0.154	-195.08	31.11876
w1Age	-3.152741	2.7338	-1.15	0.250	-8.543376	2.237895
Race	0	(omitted)				
PovStat	-77.13457	49.61286	-1.55	0.122	-174.9632	20.69403
TIME_V1SCAN	.0130215	.0336776	0.39	0.699	-.0533852	.0794282
w1BMI	.5770315	3.664996	0.16	0.875	-6.737393	7.891456
ICV_volM2	.0021497	.0002084	10.31	0.000	.0017387	.0025606
_cons	1509.882	324.7975	4.65	0.000	869.2287	2150.535

```
365 .
366 . //ANALYSIS C//
367 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  ICV_volM2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        209
                                                Average RVI       =     0.0489
                                                Largest FMI       =     0.3374
                                                Complete DF       =        199
DF adjustment:   Small sample                   DF:     min       =      32.72
                                                        avg       =     177.24
                                                        max       =     196.90
Model F test:       Equal FMI                   F(   9,  193.8)   =       0.99
Within VCE type:          OLS                   Prob > F          =     0.4503
```

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.4625488	.7846582	0.59	0.556	-1.08499	2.010088
Race						
AfrAm	.9659175	2.225513	0.43	0.665	-3.422994	5.354829
Race#c.LnNFLw3						
AfrAm	-.1667832	.9784023	-0.17	0.865	-2.096288	1.762722
Sex	.1794058	.7520854	0.24	0.812	-1.303896	1.662708
w1Age	.0759393	.0362378	2.10	0.037	.0044747	.1474039
Race	0	(omitted)				
PovStat	.1385836	.6539186	0.21	0.832	-1.151001	1.428168
TIME_V1SCAN	-.0001753	.0004384	-0.40	0.690	-.0010398	.0006892
w1BMI	.0197112	.0517548	0.38	0.706	-.0856186	.1250411
ICV_volM2	1.37e-06	2.71e-06	0.51	0.613	-3.98e-06	6.73e-06
_cons	-1.746124	4.277024	-0.41	0.684	-10.18884	6.696589

```
368 .
369 . save, replace
    file finaldata_imputed.dta saved

370 .
371 .
372 . ********************LnNFLw3, MODELS 3-6**************************
373 .
374 . ***********MODEL 3: MODEL 2+w1dxDiabetes w1Glucose******
375 .
376 . //AFRICAN-AMERICAN//
377 .
378 . use finaldata_imputed,clear

379 .
380 .
381 . //ANALYSIS B//
382 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM

    Multiple-imputation estimates                   Imputations       =          5
    Linear regression                               Number of obs     =         90
                                                    Average RVI       =     0.1524
                                                    Largest FMI       =     0.5001
                                                    Complete DF       =         80
    DF adjustment:   Small sample                   DF:     min       =      13.73
                                                            avg       =      58.71
                                                            max       =      77.06
    Model F test:       Equal FMI                   F(   9,   73.0)   =       7.96
    Within VCE type:          OLS                   Prob > F          =     0.0000

    ------------------------------------------------------------------------------
    Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
        LnNFLw3 |  -111.9152    50.9332    -2.20   0.031    -213.3351   -10.49531
            Sex |   31.94398   80.86162     0.40   0.694    -129.6578    193.5457
          w1Age |  -3.155386   3.875517    -0.81   0.418     -10.8802    4.569427
           Race |           0  (omitted)
        PovStat |  -144.3797   68.82767    -2.10   0.039    -281.5405     -7.2189
     TIME_V1SCAN |  -.0076999   .0497722    -0.15   0.877    -.1068079    .0914082
          w1BMI |  -6.648015    6.00803    -1.11   0.288    -19.55781     6.26178
    w1dxDiabetes |  -53.16479   60.82632    -0.87   0.391    -178.7013    72.37168
       w1Glucose |   3.359267   1.311113     2.56   0.014     .7090929    6.009441
       ICV_volM2 |   .0015087   .0003243     4.65   0.000     .0008624    .0021549
           _cons |   1928.408   423.8287     4.55   0.000     1083.703    2773.113
    ------------------------------------------------------------------------------

383 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_vol

    Multiple-imputation estimates                   Imputations       =          5
    Linear regression                               Number of obs     =         90
                                                    Average RVI       =     0.2158
                                                    Largest FMI       =     0.5417
                                                    Complete DF       =         80
    DF adjustment:   Small sample                   DF:     min       =      12.00
                                                            avg       =      54.40
                                                            max       =      75.75
    Model F test:       Equal FMI                   F(   9,   69.7)   =       8.73
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-85.7926	49.97602	-1.72	0.090	-185.3338	13.74862
Sex	-2.088249	79.24424	-0.03	0.979	-160.5462	156.3698
w1Age	-3.760337	3.881799	-0.97	0.336	-11.51962	3.998946
Race	0	(omitted)				
PovStat	-133.2847	67.62835	-1.97	0.053	-268.131	1.56163
TIME_V1SCAN	.0028982	.0489457	0.06	0.953	-.0946039	.1004003
w1BMI	-7.478681	6.074917	-1.23	0.242	-20.71511	5.757745
w1dxDiabetes	-31.56282	65.37209	-0.48	0.636	-171.1039	107.9783
w1Glucose	3.657906	1.346355	2.72	0.011	.8995478	6.416263
ICV_volM2	.0017364	.0003167	5.48	0.000	.0011053	.0023674
_cons	1876.253	416.2984	4.51	0.000	1046.1	2706.406

```
384 .
385 . //ANALYSIS C//
386 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 88
Average RVI = 0.1398
Largest FMI = 0.5095
Complete DF = 78
DF adjustment: **Small sample** — DF: min = 13.21
avg = 58.05
max = 75.79
Model F test: **Equal FMI** — F(9, 71.7) = 0.81
Within VCE type: **OLS** — Prob > F = 0.6112

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.081054	.8088437	0.10	0.920	-1.534759	1.696867
Sex	.2211166	1.18717	0.19	0.853	-2.143444	2.585677
w1Age	.0872831	.0609015	1.43	0.157	-.0346609	.2092271
Race	0	(omitted)				
PovStat	-1.049784	1.034596	-1.01	0.314	-3.110663	1.011095
TIME_V1SCAN	-.0001879	.0007522	-0.25	0.803	-.0016861	.0013103
w1BMI	.0146452	.0920319	0.16	0.876	-.1838496	.2131401
w1dxDiabetes	-.4665552	.9068798	-0.51	0.611	-2.327126	1.394015
w1Glucose	.0093166	.0198867	0.47	0.642	-.0307982	.0494315
ICV_volM2	6.42e-07	4.86e-06	0.13	0.895	-9.04e-06	.0000103
_cons	1.181193	6.372724	0.19	0.853	-11.51774	13.88013

```
387 .
388 . save, replace
file finaldata_imputed.dta saved

389 .
390 .
```

```
391 .
392 . //WHITE//
393 .
394 . use finaldata_imputed,clear

395 .
396 .
397 . //ANALYSIS B//
398 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 123
		Average RVI	= 0.0025
		Largest FMI	= 0.0168
		Complete DF	= 113
DF adjustment: Small sample		DF: min	= 108.50
		avg	= 110.60
		max	= 111.03
Model F test: Equal FMI		F(9, 111.0)	= 10.10
Within VCE type: OLS		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-162.5385	64.95978	-2.50	0.014	-291.2612	-33.81571
Sex	-80.26945	76.88666	-1.04	0.299	-232.6256	72.08666
w1Age	-2.104017	3.795301	-0.55	0.580	-9.624657	5.416624
Race	0	(omitted)				
PovStat	-41.73961	68.70901	-0.61	0.545	-177.8909	94.41166
TIME_V1SCAN	.0050812	.0435763	0.12	0.907	-.0812685	.091431
w1BMI	2.997608	4.608286	0.65	0.517	-6.134045	12.12926
w1dxDiabetes	22.48763	57.85161	0.39	0.698	-92.16491	137.1402
w1Glucose	.3601163	1.324881	0.27	0.786	-2.265892	2.986124
ICV_volM2	.0019254	.0002641	7.29	0.000	.001402	.0024488
_cons	1484.8	434.1936	3.42	0.001	624.4131	2345.187

```
399 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_vol
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 123
		Average RVI	= 0.0043
		Largest FMI	= 0.0197
		Complete DF	= 113
DF adjustment: Small sample		DF: min	= 107.89
		avg	= 110.42
		max	= 111.03
Model F test: Equal FMI		F(9, 111.0)	= 11.93
Within VCE type: OLS		Prob > F	= 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-99.47295	68.31826	-1.46	0.148	-234.8527	35.90682
Sex	-137.5532	80.82045	-1.70	0.092	-297.7046	22.59829
w1Age	-.1375941	3.989931	-0.03	0.973	-8.043942	7.768754
Race	0	(omitted)				
PovStat	1.121959	72.21858	0.02	0.988	-141.9838	144.2277
TIME_V1SCAN	.0241097	.0458022	0.53	0.600	-.0666509	.1148703
w1BMI	6.236047	4.860704	1.28	0.202	-3.396716	15.86881
w1dxDiabetes	-30.19223	60.81726	-0.50	0.621	-150.7229	90.33849
w1Glucose	.5414893	1.394596	0.39	0.699	-2.222873	3.305852
ICV_volM2	.0024	.0002776	8.64	0.000	.0018498	.0029501
_cons	796.8773	456.392	1.75	0.084	-107.4981	1701.253

```
400 .
401 . //ANALYSIS C//
402 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        121
                                                Average RVI       =     0.0012
                                                Largest FMI       =     0.0093
                                                Complete DF       =        111
DF adjustment:   Small sample                   DF:     min       =     107.86
                                                        avg       =     108.87
                                                        max       =     109.05
Model F test:       Equal FMI                   F(   9,  109.0)   =       0.62
Within VCE type:          OLS                   Prob > F          =     0.7796

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .5708221   .8809234     0.65   0.518    -1.175148    2.316793
          Sex |   .0256019   1.008645     0.03   0.980    -1.973489    2.024693
        w1Age |   .0620431   .0510772     1.21   0.227    -.0391898     .163276
         Race |           0  (omitted)
      PovStat |   1.346136   .9116664     1.48   0.143    -.4607496    3.153021
  TIME_V1SCAN |  -.0001309   .0005701    -0.23   0.819    -.0012608     .000999
        w1BMI |   .0252963   .0606549     0.42   0.677    -.0949203    .1455129
w1dxDiabetes |  -.0987849   .7634077    -0.13   0.897    -1.611875    1.414306
   w1Glucose |   .0017297   .0175084     0.10   0.921    -.0329755    .0364349
    ICV_volM2 |   2.75e-06   3.45e-06     0.80   0.428    -4.10e-06    9.60e-06
        _cons |  -4.878964   5.694473    -0.86   0.393    -16.16525     6.40732
------------------------------------------------------------------------------

403 .
404 . save, replace
    file finaldata_imputed.dta saved

405 .
406 .
407 . //INTERACTION by Race//
408 .
409 .
410 .
411 . //ANALYSIS B//
412 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        213
                                                Average RVI       =     0.0373
                                                Largest FMI       =     0.2218
                                                Complete DF       =        201
DF adjustment:   Small sample                   DF:     min       =      59.80
                                                        avg       =     175.80
                                                        max       =     198.79
Model F test:       Equal FMI                   F(  11,  197.5)   =      16.73
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-181.9335	57.47664	-3.17	0.002	-295.2785	-68.58863
Race						
AfrAm	-256.3139	162.2805	-1.58	0.116	-576.3412	63.71335
Race#c.LnNFLw3						
AfrAm	89.79194	70.9852	1.26	0.207	-50.19544	229.7793
Sex	-35.75052	54.98172	-0.65	0.516	-144.1883	72.68728
w1Age	-3.371734	2.651534	-1.27	0.205	-8.600585	1.857117
Race	0	(omitted)				
PovStat	-101.1394	47.31937	-2.14	0.034	-194.4518	-7.827093
TIME_V1SCAN	-.0027402	.0323313	-0.08	0.933	-.0665	.0610196
w1BMI	-1.388923	3.595699	-0.39	0.701	-8.581886	5.804039
w1dxDiabetes	-7.280427	40.54681	-0.18	0.858	-87.58512	73.02427
w1Glucose	1.716745	.9015982	1.90	0.059	-.0627656	3.496255
ICV_volM2	.0017622	.000199	8.86	0.000	.0013699	.0021546
_cons	1843.053	316.6343	5.82	0.000	1218.283	2467.824

413 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 213
		Average RVI	= 0.0419
		Largest FMI	= 0.2270
		Complete DF	= 201
DF adjustment:	Small sample	DF: min	= 58.02
		avg	= 172.83
		max	= 198.73
Model F test:	Equal FMI	F(11, 197.1)	= 18.79
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-119.7271	59.9511	-2.00	0.047	-237.9553	-1.49898
Race						
AfrAm	-164.0452	169.0113	-0.97	0.333	-497.3464	169.256
Race#c.LnNFLw3						
AfrAm	49.52696	73.94556	0.67	0.504	-96.29925	195.3532
Sex	-84.39592	57.23404	-1.47	0.142	-197.2744	28.48257
w1Age	-2.758916	2.764769	-1.00	0.320	-8.211189	2.693358
Race	0	(omitted)				
PovStat	-79.4835	49.28545	-1.61	0.108	-176.673	17.70606
TIME_V1SCAN	.0159507	.0336757	0.47	0.636	-.0504605	.0823619
w1BMI	-.5923965	3.755539	-0.16	0.875	-8.109858	6.925065
w1dxDiabetes	-21.65995	42.79646	-0.51	0.614	-106.5837	63.26383
w1Glucose	1.880004	.9491039	1.98	0.049	.0051907	3.754816
ICV_volM2	.0021328	.0002073	10.29	0.000	.001724	.0025416
_cons	1437.188	328.7405	4.37	0.000	788.6324	2085.744

```
414 .
415 . //ANALYSIS C//
416 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        209
                                                Average RVI       =     0.0605
                                                Largest FMI       =     0.2868
                                                Complete DF       =        197
DF adjustment:   Small sample                   DF:     min       =      41.74
                                                        avg       =     163.93
                                                        max       =     194.92
Model F test:       Equal FMI                   F(  11,  191.4)   =       0.82
Within VCE type:          OLS                   Prob > F          =     0.6200

------------------------------------------------------------------------------
LnLesion_Vol~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |   .3810725   .8214916     0.46   0.643     -1.23972    2.001865
               |
          Race |
         AfrAm |   .8944973   2.258831     0.40   0.693    -3.560491    5.349486
               |
Race#c.LnNFLw3 |
         AfrAm |  -.1268955   .9951819    -0.13   0.899    -2.089679    1.835888
               |
           Sex |   .1970852   .7546679     0.26   0.794    -1.291337    1.685507
         w1Age |   .0795755   .0372728     2.13   0.034     .0060508    .1531002
          Race |          0  (omitted)
       PovStat |   .1430401   .6568549     0.22   0.828    -1.152415    1.438495
    TIME_V1SCAN |  -.000184   .0004425    -0.42   0.678    -.0010567    .0006888
         w1BMI |   .0205247   .0513996     0.40   0.692    -.0832234    .1242728
  w1dxDiabetes |  -.273918   .5746522    -0.48   0.635    -1.416799    .8689632
     w1Glucose |   .0058827   .0129674     0.45   0.651    -.0198033    .0315688
      ICV_volM2 |  1.33e-06   2.73e-06     0.49   0.627    -4.05e-06    6.70e-06
          _cons |  -2.193782   4.298273    -0.51   0.610    -10.67242    6.284854
------------------------------------------------------------------------------

417 .
418 . save, replace
file finaldata_imputed.dta saved

419 .
420 .
421 . ***********MODEL 4: MODEL 2+liver/kidney disease******
422 .
423 . //AFRICAN-AMERICAN//
424 .
425 . use finaldata_imputed,clear

426 .
427 . //ANALYSIS B//
428 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         90
                                                Average RVI       =     0.4249
                                                Largest FMI       =     0.7774
                                                Complete DF       =         77
DF adjustment:   Small sample                   DF:     min       =       5.68
                                                        avg       =      39.75
                                                        max       =      74.38
Model F test:       Equal FMI                   F(  11,   59.7)   =       4.16
Within VCE type:          OLS                   Prob > F          =     0.0001
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-92.96865	53.98921	-1.72	0.089	-200.5669	14.62958
Sex	27.40488	118.2398	0.23	0.819	-221.9364	276.7461
w1Age	-5.626789	4.203599	-1.34	0.185	-14.00911	2.755534
Race	0	(omitted)				
PovStat	-161.6179	70.55979	-2.29	0.025	-302.1996	-21.03622
TIME_V1SCAN	.0021665	.0538505	0.04	0.968	-.1054008	.1097337
w1BMI	-2.848072	6.562023	-0.43	0.670	-16.82942	11.13328
w1Creatinine	104.9097	192.6299	0.54	0.607	-372.9689	582.7882
w1USpecGrav	-5243.858	5928.095	-0.88	0.388	-17708.62	7220.902
w1BUN	2.448843	10.72588	0.23	0.821	-19.46554	24.36323
w1ALP	.5264111	1.796854	0.29	0.773	-3.271983	4.324805
w1UricAcid	-17.54674	24.49299	-0.72	0.476	-66.3812	31.28771
ICV_volM2	.0015478	.0003654	4.24	0.000	.0008108	.0022848
_cons	7433.31	6067.782	1.23	0.236	-5312.224	20178.84

429 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 90
Average RVI = 0.4443
Largest FMI = 0.7756
Complete DF = 77
DF adjustment: **Small sample** — DF: min = 5.71
avg = 38.70
max = 73.94
Model F test: **Equal FMI** — F(11, 58.9) = 4.42
Within VCE type: **OLS** — Prob > F = 0.0001

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-78.66985	53.71152	-1.46	0.147	-185.7149	28.37523
Sex	-31.83598	121.7728	-0.26	0.797	-291.9476	228.2756
w1Age	-7.591517	4.26421	-1.78	0.080	-16.11095	.9279139
Race	0	(omitted)				
PovStat	-163.3996	70.32936	-2.32	0.023	-303.5357	-23.26343
TIME_V1SCAN	.0283973	.0531855	0.53	0.595	-.0777592	.1345537
w1BMI	-5.522049	6.726679	-0.82	0.426	-20.01961	8.975509
w1Creatinine	86.6832	191.0209	0.45	0.667	-386.5001	559.8665
w1USpecGrav	-1999.021	5856.837	-0.34	0.737	-14285.83	10287.79
w1BUN	10.50057	10.65871	0.99	0.332	-11.2701	32.27125
w1ALP	.7243415	1.876581	0.39	0.706	-3.317221	4.765904
w1UricAcid	-3.091847	24.72166	-0.13	0.901	-52.44846	46.26477
ICV_volM2	.0018544	.0003611	5.14	0.000	.0011272	.0025815
_cons	3994.797	6003.515	0.67	0.514	-8593.181	16582.78

430 .
431 . //ANALYSIS C//

```
. mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
```

```
Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         88
                                                Average RVI       =     0.7235
                                                Largest FMI       =     0.8873
                                                Complete DF       =         75
DF adjustment:   Small sample                   DF:     min       =       3.76
                                                        avg       =      34.16
                                                        max       =      69.85
Model F test:       Equal FMI                   F(  11,   48.5)   =       0.55
Within VCE type:          OLS                   Prob > F          =     0.8597
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.2994173	.7982659	0.38	0.709	-1.294193	1.893028
Sex	.4957485	1.88954	0.26	0.797	-3.584047	4.575544
w1Age	.0678047	.0645797	1.05	0.299	-.0619723	.1975818
Race	0	(omitted)				
PovStat	-1.137844	1.036661	-1.10	0.276	-3.205475	.9297871
TIME_V1SCAN	-.0003115	.0007882	-0.40	0.694	-.0018899	.001267
w1BMI	.0338678	.1108144	0.31	0.767	-.2170493	.2847849
w1Creatinine	-.2641991	3.805459	-0.07	0.948	-11.09992	10.57153
w1USpecGrav	-51.57897	88.98922	-0.58	0.571	-241.0071	137.8491
w1BUN	.1058372	.1849091	0.57	0.576	-.2918986	.503573
w1ALP	-.0184986	.0248091	-0.75	0.464	-.0700184	.0330212
w1UricAcid	-.2957771	.3783823	-0.78	0.437	-1.050889	.4593349
ICV_volM2	9.89e-07	5.32e-06	0.19	0.853	-9.75e-06	.0000117
_cons	55.91937	91.21157	0.61	0.549	-138.2092	250.048

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

. 
. 
. 
. //WHITES//
. 
. use finaldata_imputed,clear

. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
```

```
Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        123
                                                Average RVI       =     0.0330
                                                Largest FMI       =     0.2333
                                                Complete DF       =        110
DF adjustment:   Small sample                   DF:     min       =      43.31
                                                        avg       =      96.36
                                                        max       =     107.74
Model F test:       Equal FMI                   F(  11,  107.5)   =       8.39
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-184.7849	66.89722	-2.76	0.007	-317.3982	-52.17158
Sex	-115.8388	95.22853	-1.22	0.227	-304.6898	73.01217
w1Age	-1.569111	3.808775	-0.41	0.681	-9.118966	5.980745
Race	0	(omitted)				
PovStat	-28.15897	69.26289	-0.41	0.685	-165.4574	109.1395
TIME_V1SCAN	-.0016651	.0449893	-0.04	0.971	-.0908545	.0875243
w1BMI	1.99722	4.882583	0.41	0.683	-7.681638	11.67608
w1Creatinine	-15.3948	143.7113	-0.11	0.915	-305.1572	274.3676
w1USpecGrav	-580.6938	5760.134	-0.10	0.920	-12043.04	10881.65
w1BUN	12.30748	7.927091	1.55	0.124	-3.439205	28.05417
w1ALP	-1.184798	1.378222	-0.86	0.392	-3.917474	1.547877
w1UricAcid	9.634461	24.62941	0.39	0.696	-39.19646	58.46539
ICV_volM2	.0019963	.000276	7.23	0.000	.0014492	.0025434
_cons	1997.169	5765.68	0.35	0.730	-9476.044	13470.38

445 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 123
		Average RVI	= 0.0985
		Largest FMI	= 0.5287
		Complete DF	= 110
DF adjustment: Small sample		DF: min	= 13.58
		avg	= 85.84
		max	= 107.97
Model F test: Equal FMI		F(11, 104.5)	= 9.08
Within VCE type: OLS		Prob > F	= 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-133.2344	71.32147	-1.87	0.065	-274.6721	8.203437
Sex	-195.4325	103.4624	-1.89	0.062	-401.1015	10.23658
w1Age	-.645116	4.020303	-0.16	0.873	-8.614106	7.323874
Race	0	(omitted)				
PovStat	-1.195291	73.02629	-0.02	0.987	-145.9465	143.556
TIME_V1SCAN	.029679	.0485231	0.61	0.542	-.066635	.125993
w1BMI	3.586297	5.192638	0.69	0.491	-6.709847	13.88244
w1Creatinine	-7.255572	185.5907	-0.04	0.969	-406.4631	391.9519
w1USpecGrav	367.0535	6297.674	0.06	0.954	-12234.3	12968.41
w1BUN	7.348367	8.617389	0.85	0.397	-9.832385	24.52912
w1ALP	.6066126	1.457157	0.42	0.678	-2.282695	3.49592
w1UricAcid	20.97633	26.53862	0.79	0.431	-31.70569	73.65835
ICV_volM2	.0024789	.0002925	8.47	0.000	.0018989	.0030589
_cons	349.2729	6308.184	0.06	0.956	-12274.54	12973.09

446 .
447 . //ANALYSIS C//

```
448 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        121
                                                Average RVI       =     0.0089
                                                Largest FMI       =     0.0462
                                                Complete DF       =        108
DF adjustment:   Small sample                   DF:     min       =      96.58
                                                        avg       =     104.04
                                                        max       =     105.96
Model F test:       Equal FMI                   F(  11,  106.0)   =       0.79
Within VCE type:          OLS                   Prob > F          =     0.6470

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .3976857   .8810086     0.45   0.653    -1.349037    2.144409
          Sex |  -.6192232   1.251418    -0.49   0.622    -3.100597    1.862151
        w1Age |   .0646094   .0517258     1.25   0.214    -.0379481     .167167
         Race |           0  (omitted)
      PovStat |   1.174262   .9229163     1.27   0.206    -.6555169    3.004041
  TIME_V1SCAN |  -.0002874   .0005884    -0.49   0.626     -.001454    .0008792
        w1BMI |  -.0046488   .0655011    -0.07   0.944    -.1345241    .1252266
 w1Creatinine |   .3134429   1.735341     0.18   0.857    -3.130919    3.757805
  w1USpecGrav |   110.5111   73.99869     1.49   0.138    -36.25404    257.2763
        w1BUN |   .0137195   .1065327     0.13   0.898    -.1975629     .225002
        w1ALP |  -.0049679   .0181332    -0.27   0.785    -.0409284    .0309927
   w1UricAcid |   .1403288   .3270803     0.43   0.669    -.5081762    .7888339
    ICV_volM2 |   2.63e-06   3.62e-06     0.73   0.469    -4.54e-06    9.81e-06
        _cons |   -115.466   74.08147    -1.56   0.122    -262.3985     31.4664
------------------------------------------------------------------------------

449 .
450 . save, replace
    file finaldata_imputed.dta saved

451 .
452 . **INTERACTION by Race**
453 .
454 .
455 .
456 . //ANALYSIS B//
457 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGra

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        213
                                                Average RVI       =     0.2487
                                                Largest FMI       =     0.7514
                                                Complete DF       =        198
DF adjustment:   Small sample                   DF:     min       =       7.29
                                                        avg       =     122.29
                                                        max       =     193.63
Model F test:       Equal FMI                   F(  13,  162.2)   =      11.16
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-173.0177	60.18925	-2.87	0.005	-291.8727	-54.16276
Race						
AfrAm	-209.8847	167.952	-1.25	0.213	-541.5656	121.7963
Race#c.LnNFLw3						
AfrAm	73.76265	71.96131	1.03	0.307	-68.21947	215.7448
Sex	-37.51981	69.28495	-0.54	0.589	-174.8342	99.79462
w1Age	-4.136693	2.702405	-1.53	0.127	-9.466623	1.193236
Race	0	(omitted)				
PovStat	-92.93651	48.19027	-1.93	0.055	-187.9883	2.115297
TIME_V1SCAN	-.0084496	.0329709	-0.26	0.798	-.0734929	.0565937
w1BMI	-.0039324	3.790649	-0.00	0.999	-7.552086	7.544221
w1Creatinine	50.87117	141.2618	0.36	0.729	-280.5177	382.26
w1USpecGrav	-2276.795	3912	-0.58	0.562	-10083.1	5529.513
w1BUN	8.928807	6.398758	1.40	0.168	-3.872911	21.73053
w1ALP	-.1588815	1.16911	-0.14	0.893	-2.553609	2.235846
w1UricAcid	-6.224255	17.31889	-0.36	0.720	-40.4365	27.98799
ICV_volM2	.0017647	.000207	8.52	0.000	.0013562	.0021732
_cons	4182.111	3939.966	1.06	0.292	-3675.934	12040.16

458 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGr

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 213
		Average RVI	= 0.2234
		Largest FMI	= 0.7019
		Complete DF	= 198
DF adjustment:	Small sample	DF: min	= 8.50
		avg	= 119.45
		max	= 193.95
Model F test:	Equal FMI	F(13, 166.7)	= 13.01
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-122.4457	62.49746	-1.96	0.052	-245.8409	.9494516
Race						
AfrAm	-134.6892	173.9717	-0.77	0.440	-478.1481	208.7698
Race#c.LnNFLw3						
AfrAm	38.85072	74.63599	0.52	0.603	-108.3889	186.0903
Sex	-103.5457	72.13053	-1.44	0.154	-246.5163	39.42489
w1Age	-3.954329	2.817621	-1.40	0.162	-9.511821	1.603164
Race	0	(omitted)				
PovStat	-76.42826	49.97858	-1.53	0.128	-174.9995	22.14303
TIME_V1SCAN	.0139083	.0341959	0.41	0.685	-.0535442	.0813608
w1BMI	-.3363971	3.983705	-0.08	0.933	-8.284536	7.611742
w1Creatinine	48.21112	135.9237	0.35	0.731	-262.0198	358.442
w1USpecGrav	-63.00852	4241.67	-0.01	0.988	-8606.399	8480.382
w1BUN	7.696578	6.74232	1.14	0.259	-5.830896	21.22405
w1ALP	.846844	1.204849	0.70	0.488	-1.614062	3.30775
w1UricAcid	6.005237	18.04426	0.33	0.740	-29.64445	41.65493
ICV_volM2	.002155	.000215	10.02	0.000	.0017307	.0025792
_cons	1485.517	4265.025	0.35	0.729	-7095.98	10067.01

```
459 .
460 . //ANALYSIS C//
461 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
```

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **209**
Average RVI = **0.2697**
Largest FMI = **0.7592**
Complete DF = **194**
DF adjustment: **Small sample** — DF: min = **7.09**
avg = **111.62**
max = **189.23**
Model F test: **Equal FMI** — F(**13**, **155.9**) = **0.68**
Within VCE type: **OLS** — Prob > F = **0.7802**

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.3463664	.8326459	0.42	0.678	-1.298532	1.991265
Race						
AfrAm	.9312203	2.301496	0.40	0.686	-3.611168	5.473609
Race#c.LnNFLw3						
AfrAm	-.0735275	.9952696	-0.07	0.941	-2.037017	1.889962
Sex	.0257458	1.036413	0.02	0.980	-2.055347	2.106838
w1Age	.0757717	.0382004	1.98	0.049	.0003951	.1511482
Race	0	(omitted)				
PovStat	.1256467	.6656902	0.19	0.850	-1.187584	1.438877
TIME_V1SCAN	-.0002166	.0004462	-0.49	0.628	-.0010967	.0006635
w1BMI	.0041166	.0572438	0.07	0.943	-.1122349	.120468
w1Creatinine	-.2056474	1.995253	-0.10	0.921	-4.91121	4.499915
w1USpecGrav	33.05516	57.7414	0.57	0.571	-84.03173	150.142
w1BUN	.0650253	.0916686	0.71	0.481	-.1187333	.2487839
w1ALP	-.0083956	.0151015	-0.56	0.581	-.0388072	.0220159
w1UricAcid	-.0025503	.2462297	-0.01	0.992	-.4889459	.4838453
ICV_volM2	1.68e-06	2.83e-06	0.59	0.554	-3.91e-06	7.27e-06
_cons	-34.91661	57.99396	-0.60	0.551	-152.3758	82.54261

```
462 .
463 . save, replace
    file finaldata_imputed.dta saved

464 .
465 .
466 . ***********MODEL 5: MODEL2+OXIDATIVE STRESS******
467 .
468 . //AFRICAN-AMERICAN//
469 .
470 . use finaldata_imputed,clear
```

```
. 
. 
. //ANALYSIS B//
. mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 90
Average RVI = 0.2277
Largest FMI = 0.5065
Complete DF = 79
DF adjustment: Small sample — DF: min = 13.39
avg = 49.65
max = 76.42
Model F test: Equal FMI — F(10, 70.0) = 5.45
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-91.75464	53.05646	-1.73	0.088	-197.4295	13.92023
Sex	7.966992	81.94806	0.10	0.923	-155.2321	171.1661
w1Age	-5.187935	3.941814	-1.32	0.192	-13.04138	2.66551
Race	0	(omitted)				
PovStat	-166.8549	72.14477	-2.31	0.023	-310.5883	-23.12151
TIME_V1SCAN	.0072259	.0543917	0.13	0.895	-.1012269	.1156787
w1BMI	-4.057956	6.611119	-0.61	0.550	-18.29786	10.18195
w1TotalD	-.6560079	5.501604	-0.12	0.907	-12.34975	11.03773
w1Albumin	72.78899	127.9652	0.57	0.575	-193.067	338.645
w1EosinPct	5.631971	20.18725	0.28	0.783	-36.09444	47.35838
ICV_volM2	.0016375	.0003423	4.78	0.000	.0009553	.0023196
_cons	1763.726	773.0671	2.28	0.031	178.5658	3348.886

```
. mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 90
Average RVI = 0.2246
Largest FMI = 0.5446
Complete DF = 79
DF adjustment: Small sample — DF: min = 11.84
avg = 50.41
max = 75.58
Model F test: Equal FMI — F(10, 70.2) = 5.94
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-64.18527	52.944	-1.21	0.229	-169.6419	41.2714
Sex	-26.73066	82.34018	-0.32	0.746	-190.7774	137.3161
w1Age	-5.350199	3.934493	-1.36	0.178	-13.18973	2.489332
Race	0	(omitted)				
PovStat	-165.0015	71.71984	-2.30	0.024	-307.8667	-22.13643
TIME_V1SCAN	.0113948	.053807	0.21	0.833	-.0958292	.1186188
w1BMI	-5.433676	6.810594	-0.80	0.441	-20.29475	9.427402
w1TotalD	-3.857931	4.846492	-0.80	0.432	-13.74592	6.030058
w1Albumin	52.57338	128.8718	0.41	0.688	-216.0829	321.2296
w1EosinPct	6.728576	20.84761	0.32	0.750	-36.87499	50.33214
ICV_volM2	.0018963	.0003388	5.60	0.000	.0012212	.0025713
_cons	1865.06	783.6185	2.38	0.025	250.0629	3480.057

```
476 .
477 . //ANALYSIS C//
478 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct I

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         88
                                                Average RVI       =     0.1831
                                                Largest FMI       =     0.4423
                                                Complete DF       =         77
DF adjustment:   Small sample                   DF:     min       =      16.45
                                                        avg       =      54.26
                                                        max       =      74.85
Model F test:       Equal FMI                   F(  10,   70.1)   =       0.82
Within VCE type:          OLS                   Prob > F          =     0.6094

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .0896959   .7714477     0.12   0.908    -1.447879     1.62727
          Sex |   .0472652   1.207239     0.04   0.969    -2.359389    2.453919
        w1Age |   .0725272   .0563743     1.29   0.202    -.0397908    .1848452
         Race |           0  (omitted)
      PovStat |  -.9555829   1.033125    -0.92   0.358    -3.014037    1.102871
  TIME_V1SCAN |   .0000543   .0007747     0.07   0.944    -.0014899    .0015984
        w1BMI |   .0378177   .0907006     0.42   0.682    -.1540295     .229665
     w1TotalD |    .061598   .0733501     0.84   0.409    -.0890414    .2122374
    w1Albumin |   .9027851   1.758466     0.51   0.611    -2.674317    4.479887
   w1EosinPct |   .1680118   .2714438     0.62   0.540    -.3817682    .7177918
    ICV_volM2 |   3.75e-07   4.85e-06     0.08   0.939    -9.29e-06      .00001
        _cons |  -3.426278    10.6201    -0.32   0.749    -24.84766     17.9951
------------------------------------------------------------------------------

479 .
480 . save, replace
    file finaldata_imputed.dta saved

481 .
482 .
483 .
484 . //WHITES//
485 .
486 . use finaldata_imputed,clear

487 .
488 .
489 .
490 . //ANALYSIS B//
491 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        123
                                                Average RVI       =     0.0264
                                                Largest FMI       =     0.1151
                                                Complete DF       =        112
DF adjustment:   Small sample                   DF:     min       =      76.31
                                                        avg       =     103.69
                                                        max       =     110.01
Model F test:       Equal FMI                   F(  10,  109.7)   =       8.75
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-148.2941	63.17118	-2.35	0.021	-273.4848	-23.10351
Sex	-85.88111	80.12936	-1.07	0.286	-244.6787	72.9165
w1Age	-1.651242	3.798191	-0.43	0.665	-9.178364	5.87588
Race	0	(omitted)				
PovStat	-34.84894	69.28068	-0.50	0.616	-172.1538	102.456
TIME_V1SCAN	.0057101	.0445763	0.13	0.898	-.0826309	.094051
w1BMI	4.487381	4.6521	0.96	0.337	-4.73218	13.70694
w1TotalD	-.1991145	3.011364	-0.07	0.947	-6.193274	5.795045
w1Albumin	67.67946	116.5703	0.58	0.563	-163.3955	298.7544
w1EosinPct	-3.177737	15.23193	-0.21	0.835	-33.51279	27.15731
ICV_volM2	.0019472	.0002672	7.29	0.000	.0014176	.0024768
_cons	1122.167	736.9305	1.52	0.131	-338.4344	2582.769

```
492 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct
```

```
Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        123
                                                Average RVI       =     0.0225
                                                Largest FMI       =     0.1025
                                                Complete DF       =        112
DF adjustment:   Small sample                   DF:     min       =      80.74
                                                        avg       =     104.33
                                                        max       =     110.01
Model F test:       Equal FMI                   F(  10,  109.8)   =      10.54
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-95.20646	66.2453	-1.44	0.154	-226.4919	36.07895
Sex	-133.173	84.31339	-1.58	0.117	-300.282	33.93595
w1Age	-.3349714	3.982356	-0.08	0.933	-8.227187	7.557245
Race	0	(omitted)				
PovStat	-6.017036	72.46596	-0.08	0.934	-149.6283	137.5943
TIME_V1SCAN	.0198079	.0466759	0.42	0.672	-.0726927	.1123086
w1BMI	5.235073	4.908071	1.07	0.289	-4.494005	14.96415
w1TotalD	-1.935218	3.146601	-0.62	0.540	-8.196274	4.325839
w1Albumin	-41.49771	122.5583	-0.34	0.736	-284.4813	201.4858
w1EosinPct	5.27367	15.70658	0.34	0.738	-25.94235	36.48969
ICV_volM2	.0023891	.0002804	8.52	0.000	.0018334	.0029448
_cons	1111.331	774.5887	1.43	0.154	-424.0902	2646.752

```
493 .
494 . //ANALYSIS C//
495 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct I
```

```
Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        121
                                                Average RVI       =     0.0050
                                                Largest FMI       =     0.0353
                                                Complete DF       =        110
DF adjustment:   Small sample                   DF:     min       =     101.35
                                                        avg       =     107.20
                                                        max       =     108.01
Model F test:       Equal FMI                   F(  10,  108.0)   =       0.68
Within VCE type:          OLS                   Prob > F          =     0.7442
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.6441998	.8421386	0.76	0.446	-1.025068	2.313468
Sex	-.2868418	1.046655	-0.27	0.785	-2.361521	1.787838
w1Age	.0671057	.0509766	1.32	0.191	-.0339386	.16815
Race	0	(omitted)				
PovStat	1.339998	.9136191	1.47	0.145	-.470986	3.150981
TIME_V1SCAN	.0000231	.0005814	0.04	0.968	-.0011294	.0011757
w1BMI	.0427979	.0612694	0.70	0.486	-.0786528	.1642487
w1TotalD	.003043	.0378453	0.08	0.936	-.0720287	.0781146
w1Albumin	1.555542	1.529917	1.02	0.312	-1.477257	4.588342
w1EosinPct	.0746184	.1881876	0.40	0.693	-.29841	.4476468
ICV_volM2	3.19e-06	3.48e-06	0.92	0.361	-3.70e-06	.0000101
_cons	-13.19194	9.694003	-1.36	0.176	-32.40815	6.02427

```
496 .
497 . save, replace
    file finaldata_imputed.dta saved

498 .
499 .
500 . **********INTERACTION by Race***************
501 .
502 .
503 . //ANALYSIS B//
504 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1E

    Multiple-imputation estimates                   Imputations       =          5
    Linear regression                               Number of obs     =        213
                                                    Average RVI       =     0.0777
                                                    Largest FMI       =     0.2495
                                                    Complete DF       =        200
    DF adjustment:   Small sample                   DF:     min       =      51.07
                                                            avg       =     146.85
                                                            max       =     197.89
    Model F test:       Equal FMI                   F(  12,  192.7)   =      13.94
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-148.1326	57.23751	-2.59	0.010	-261.0204	-35.24479
Race						
AfrAm	-190.3188	167.2661	-1.14	0.257	-520.2095	139.572
Race#c.LnNFLw3						
AfrAm	58.09044	71.98682	0.81	0.421	-83.87781	200.0587
Sex	-40.09592	56.72699	-0.71	0.481	-151.97	71.77816
w1Age	-3.380375	2.665286	-1.27	0.206	-8.636613	1.875863
Race	0	(omitted)				
PovStat	-97.85626	48.38187	-2.02	0.044	-193.2707	-2.441814
TIME_V1SCAN	-.0026237	.0334381	-0.08	0.938	-.0685765	.0633291
w1BMI	.4548504	3.747677	0.12	0.904	-7.053217	7.962918
w1TotalD	-.3693844	2.603624	-0.14	0.888	-5.596214	4.857445
w1Albumin	63.62493	86.60413	0.73	0.465	-109.5395	236.7893
w1EosinPct	-.0996357	11.41915	-0.01	0.993	-22.74057	22.54129
ICV_volM2	.0017888	.0002024	8.84	0.000	.0013897	.0021879
_cons	1584.182	560.0287	2.83	0.006	467.8923	2700.471

```
505 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 213
Average RVI = 0.0696
Largest FMI = 0.2571
Complete DF = 200
DF adjustment: **Small sample** — DF: min = 49.02
avg = 149.31
max = 197.56
Model F test: **Equal FMI** — F(12, 193.6) = 16.08
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-86.54133	59.47469	-1.46	0.147	-203.8442	30.76154
Race						
AfrAm	-133.9905	174.5668	-0.77	0.444	-478.3395	210.3586
Race#c.LnNFLw3						
AfrAm	23.64295	74.93432	0.32	0.753	-124.1477	171.4335
Sex	-83.88428	59.17952	-1.42	0.158	-200.6106	32.842
w1Age	-2.899276	2.761891	-1.05	0.295	-8.345848	2.547296
Race	0	(omitted)				
PovStat	-84.29094	50.13407	-1.68	0.094	-183.1576	14.57569
TIME_V1SCAN	.0096711	.0346045	0.28	0.780	-.0585758	.0779181
w1BMI	.1261101	3.94298	0.03	0.975	-7.797539	8.049759
w1TotalD	-2.676906	2.466681	-1.09	0.280	-7.551588	2.197775
w1Albumin	.0331382	90.11204	0.00	1.000	-180.2259	180.2922
w1EosinPct	4.727913	12.31299	0.38	0.702	-19.84707	29.3029
ICV_volM2	.002158	.0002108	10.24	0.000	.0017423	.0025737
_cons	1571.443	588.6084	2.67	0.010	395.3001	2747.586

```
506 .
507 . //ANALYSIS C//
508 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1Eo
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 209
Average RVI = 0.0582
Largest FMI = 0.3077
Complete DF = 196
DF adjustment: **Small sample** — DF: min = 37.57
avg = 161.53
max = 193.52
Model F test: **Equal FMI** — F(12, 190.9) = 0.92
Within VCE type: **OLS** — Prob > F = 0.5252

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.5008061	.7880189	0.64	0.526	-1.053517	2.05513
Race						
AfrAm	1.594102	2.282194	0.70	0.486	-2.907397	6.095601
Race#c.LnNFLw3						
AfrAm	-.2972111	.9876069	-0.30	0.764	-2.245119	1.650697
Sex	-.0375505	.7764759	-0.05	0.961	-1.569366	1.494265
w1Age	.0787186	.036571	2.15	0.033	.0065894	.1508478

Race	0	(omitted)				
PovStat	.1790051	.6593589	0.27	0.786	-1.121452	1.479462
TIME_V1SCAN	-.0000502	.0004483	-0.11	0.911	-.0009344	.000834
w1BMI	.0386314	.0531442	0.73	0.472	-.0689942	.1462571
w1TotalD	.0202413	.0319403	0.63	0.527	-.0428313	.083314
w1Albumin	1.192804	1.130494	1.06	0.294	-1.047003	3.432611
w1EosinPct	.1345159	.1515756	0.89	0.376	-.165242	.4342737
ICV_volM2	1.53e-06	2.74e-06	0.56	0.576	-3.87e-06	6.93e-06
_cons	-8.85183	7.346463	-1.20	0.231	-23.40102	5.697359

```
509 .
510 . save, replace
    file finaldata_imputed.dta saved

511 .
512 . ***********MODEL 6: MODEL 2+lifestyle/health-related factors*******
513 .
514 . //AFRICAN-AMERICAN//
515 .
516 . use finaldata_imputed,clear

517 .
518 .
519 .
520 .
521 . //ANALYSIS B//
522 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 90
Average RVI = 0.0814
Largest FMI = 0.4809
Complete DF = 80
DF adjustment: Small sample — DF: min = 14.63
avg = 69.77
max = 77.94
Model F test: Equal FMI — F(9, 76.2) = 6.96
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-87.19164	52.63951	-1.66	0.102	-192.0205	17.63719
Sex	15.25538	80.99892	0.19	0.851	-146.0364	176.5472
w1Age	-5.74178	3.845661	-1.49	0.140	-13.40054	1.916985
Race	0	(omitted)				
PovStat	-171.2276	70.42902	-2.43	0.017	-311.4428	-31.0124
TIME_V1SCAN	.0053489	.0518262	0.10	0.918	-.0978325	.1085302
w1BMI	-5.413891	6.232742	-0.87	0.399	-18.72776	7.899981
w1currdrugs	-61.61121	68.11587	-0.90	0.369	-197.4099	74.18749
w1SRH	-14.38815	38.88681	-0.37	0.712	-91.81344	63.03713
ICV_volM2	.0016896	.000337	5.01	0.000	.0010186	.0023606
_cons	2119.997	444.1749	4.77	0.000	1234.239	3005.756

```
523 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 90
Average RVI = 0.0963
Largest FMI = 0.5354
Complete DF = 80
DF adjustment: Small sample — DF: min = 12.24
avg = 69.48
max = 77.91
Model F test: Equal FMI — F(9, 75.6) = 7.41
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-59.20969	52.56775	-1.13	0.264	-163.9005	45.48112
Sex	-16.77893	80.92051	-0.21	0.836	-177.9246	144.3667
w1Age	-6.320528	3.84011	-1.65	0.104	-13.96858	1.327524
Race	0	(omitted)				
PovStat	-161.8429	70.27892	-2.30	0.024	-301.76	-21.92593
TIME_V1SCAN	.0173355	.0517173	0.34	0.738	-.0856297	.1203006
w1BMI	-6.155502	6.506755	-0.95	0.362	-20.30149	7.990486
w1currdrugs	-74.37055	67.34404	-1.10	0.273	-208.5356	59.79455
w1SRH	-1.139316	38.82785	-0.03	0.977	-78.44948	76.17085
ICV_volM2	.0018969	.0003364	5.64	0.000	.0012272	.0025665
_cons	2095.943	446.0741	4.70	0.000	1205.808	2986.078

```
524 .
525 . //ANALYSIS C//
526 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if R
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 88
Average RVI = 0.1467
Largest FMI = 0.5466
Complete DF = 78
DF adjustment: Small sample — DF: min = 11.72
avg = 62.18
max = 75.85
Model F test: Equal FMI — F(9, 71.3) = 1.01
Within VCE type: OLS — Prob > F = 0.4384

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.0721262	.7613145	0.09	0.925	-1.444987	1.58924
Sex	.1762242	1.168247	0.15	0.881	-2.151167	2.503616
w1Age	.0801304	.0553385	1.45	0.152	-.030165	.1904259
Race	0	(omitted)				
PovStat	-1.136665	1.012666	-1.12	0.265	-3.153628	.8802986
TIME_V1SCAN	-.0001545	.0007395	-0.21	0.835	-.0016275	.0013184
w1BMI	.0235022	.0940622	0.25	0.807	-.1819804	.2289847
w1currdrugs	-.1619498	1.199817	-0.13	0.894	-2.679275	2.355376
w1SRH	-.8667919	.5552508	-1.56	0.123	-1.972869	.2392854
ICV_volM2	2.56e-06	4.87e-06	0.53	0.601	-7.14e-06	.0000123
_cons	1.585352	6.313876	0.25	0.802	-11.0066	14.1773

```
527 .
528 . save, replace
    file finaldata_imputed.dta saved

529 .
530 .
531 .
532 . //WHITES//
533 .
534 . use finaldata_imputed,clear

535 .
536 .
537 .
538 . //ANALYSIS B//
539 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        123
                                                  Average RVI       =     0.0051
                                                  Largest FMI       =     0.0430
                                                  Complete DF       =        113
    DF adjustment:   Small sample                 DF:     min       =     101.86
                                                          avg       =     110.00
                                                          max       =     111.04
    Model F test:       Equal FMI                 F(   9,  111.0)   =      10.09
    Within VCE type:          OLS                 Prob > F          =     0.0000

    ------------------------------------------------------------------------------
    Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
        LnNFLw3  |  -148.3197   62.48762    -2.37   0.019    -272.1429   -24.49656
             Sex |  -72.40147   76.94867    -0.94   0.349    -224.8818    80.07886
           w1Age |  -1.559473   3.789944    -0.41   0.682    -9.069509    5.950564
            Race |          0  (omitted)
         PovStat |  -20.69627   70.87215    -0.29   0.771    -161.1354    119.7429
     TIME_V1SCAN |  -.0089965   .0442792    -0.20   0.839    -.0967397    .0787466
           w1BMI |   4.731178   4.537579     1.04   0.299     -4.26058    13.72294
     w1currdrugs |    49.0725   84.76209     0.58   0.564    -119.0555    217.2005
           w1SRH |   22.53357   38.13462     0.59   0.556    -53.03244    98.09959
        ICV_volM2 |   .0019429   .0002657     7.31   0.000     .0014163    .0024695
           _cons |    1330.61   444.5569     2.99   0.003     449.6651    2211.555
    ------------------------------------------------------------------------------

540 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        123
                                                  Average RVI       =     0.0060
                                                  Largest FMI       =     0.0447
                                                  Complete DF       =        113
    DF adjustment:   Small sample                 DF:     min       =     101.34
                                                          avg       =     109.71
                                                          max       =     111.03
    Model F test:       Equal FMI                 F(   9,  111.0)   =      11.90
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-92.80683	65.72525	-1.41	0.161	-223.0461	37.43248
Sex	-134.8862	80.91626	-1.67	0.098	-295.2285	25.45604
w1Age	-.1573398	3.985997	-0.04	0.969	-8.05589	7.741211
Race	0	(omitted)				
PovStat	7.171321	74.53982	0.10	0.924	-140.5361	154.8788
TIME_V1SCAN	.0221674	.0465525	0.48	0.635	-.07008	.1144148
w1BMI	6.375049	4.795875	1.33	0.187	-3.130069	15.88017
w1currdrugs	38.40138	89.21136	0.43	0.668	-138.5627	215.3655
w1SRH	4.670899	40.10404	0.12	0.907	-74.79769	84.13949
ICV_volM2	.0024046	.0002795	8.60	0.000	.0018507	.0029585
_cons	790.12	468.6843	1.69	0.095	-138.7042	1718.944

```
541 .
542 . //ANALYSIS C//
543 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2 if R
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 121
Average RVI = 0.0042
Largest FMI = 0.0338
Complete DF = 111
DF adjustment: **Small sample** — DF: min = 102.66
avg = 108.35
max = 109.05
Model F test: **Equal FMI** — F(9, 109.0) = 0.68
Within VCE type: **OLS** — Prob > F = 0.7220

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.5446115	.838675	0.65	0.517	-1.117608	2.206831
Sex	-.0179147	1.006461	-0.02	0.986	-2.012682	1.976853
w1Age	.0594003	.0510621	1.16	0.247	-.0418033	.160604
Race	0	(omitted)				
PovStat	1.175133	.932822	1.26	0.210	-.673681	3.023946
TIME_V1SCAN	-.0000297	.0005777	-0.05	0.959	-.0011747	.0011152
w1BMI	.0152453	.0596018	0.26	0.799	-.1028839	.1333745
w1currdrugs	-.5275723	1.102852	-0.48	0.633	-2.714906	1.659762
w1SRH	-.2913732	.5026866	-0.58	0.563	-1.287679	.7049329
ICV_volM2	2.62e-06	3.47e-06	0.76	0.451	-4.25e-06	9.50e-06
_cons	-3.289228	5.807622	-0.57	0.572	-14.8	8.221543

```
544 .
545 . save, replace
    file finaldata_imputed.dta saved

546 .
547 . ******************INTERACTION by Race**********************
```

```
548 .
549 .
550 .
551 . //ANALYSIS B//
552 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        213
                                                Average RVI       =     0.0248
                                                Largest FMI       =     0.2012
                                                Complete DF       =        201
DF adjustment:   Small sample                   DF:     min       =      67.49
                                                        avg       =     183.44
                                                        max       =     199.00
Model F test:       Equal FMI                   F(  11,  198.3)   =      15.97
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -151.8493   56.87893    -2.67   0.008    -264.0186   -39.67995
               |
          Race |
        AfrAm  |  -204.1951   162.7964    -1.25   0.211     -525.224    116.8339
               |
Race#c.LnNFLw3 |
        AfrAm  |   65.63982   71.22578     0.92   0.358    -74.81597    206.0956
               |
           Sex |   -32.3671   55.40964    -0.58   0.560    -141.6367    76.90255
         w1Age |  -3.645663   2.654481    -1.37   0.171      -8.8802    1.588875
          Race |          0  (omitted)
       PovStat |  -98.19598   48.57639    -2.02   0.045    -193.9871   -2.40488
   TIME_V1SCAN |  -.0068093   .0328918    -0.21   0.836    -.0716706    .058052
         w1BMI |  -.1890762   3.583792    -0.05   0.958    -7.341405    6.963253
   w1currdrugs |  -7.372719    53.5105    -0.14   0.891    -113.0372    98.29172
         w1SRH |   2.036576   26.70682     0.08   0.939    -50.62812    54.70127
      ICV_volM2 |   .0017742   .0002029     8.74   0.000     .0013741    .0021743
          _cons |   1905.243   321.8969     5.92   0.000     1270.163    2540.323
------------------------------------------------------------------------------

553 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        213
                                                Average RVI       =     0.0245
                                                Largest FMI       =     0.2183
                                                Complete DF       =        201
DF adjustment:   Small sample                   DF:     min       =      61.01
                                                        avg       =     184.84
                                                        max       =     199.02
Model F test:       Equal FMI                   F(  11,  198.3)   =      18.21
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hippoc~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -90.05859   59.16448    -1.52   0.130    -206.7363    26.61913
               |
          Race |
        AfrAm  |  -112.6749   169.2704    -0.67   0.506    -446.4706    221.1208
               |
Race#c.LnNFLw3 |
        AfrAm  |   26.65382   74.06117     0.36   0.719    -119.3935    172.7012
               |
           Sex |  -82.09158   57.61156    -1.42   0.156    -195.7035    31.52039
```

w1Age	-3.273106	2.759585	-1.19	0.237	-8.714897	2.168685
Race	0	(omitted)				
PovStat	-80.03161	50.48973	-1.59	0.115	-179.5954	19.53214
TIME_V1SCAN	.014484	.0342094	0.42	0.672	-.0529757	.0819437
w1BMI	.3261312	3.761042	0.09	0.931	-7.1945	7.846762
w1currdrugs	-23.96903	54.76901	-0.44	0.662	-132.0135	84.07545
w1SRH	-4.568413	27.76623	-0.16	0.869	-59.32219	50.18536
ICV_volM2	.002149	.000211	10.19	0.000	.001733	.0025651
_cons	1542.423	334.8339	4.61	0.000	881.8041	2203.042

554 .
555 . //ANALYSIS C//
556 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_vo

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 209
Average RVI = 0.0718
Largest FMI = 0.3382
Complete DF = 197
DF adjustment: Small sample — DF: min = 32.51
avg = 164.04
max = 194.78
Model F test: Equal FMI — F(11, 190.0) = 1.03
Within VCE type: OLS — Prob > F = 0.4186

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.4119713	.7839072	0.53	0.600	-1.134198	1.958141
Race						
AfrAm	1.118762	2.223193	0.50	0.615	-3.265859	5.503384
Race#c.LnNFLw3						
AfrAm	-.2019185	.9792897	-0.21	0.837	-2.133328	1.729491
Sex	.1844201	.751004	0.25	0.806	-1.296884	1.665724
w1Age	.0765423	.03641	2.10	0.037	.004732	.1483525
Race	0	(omitted)				
PovStat	-.0028986	.6605833	-0.00	0.997	-1.305747	1.29995
TIME_V1SCAN	-.0000766	.0004418	-0.17	0.863	-.000948	.0007948
w1BMI	.0150887	.0523412	0.29	0.775	-.091461	.1216384
w1currdrugs	-.2839534	.8268681	-0.34	0.733	-1.959491	1.391584
w1SRH	-.5899437	.360704	-1.64	0.104	-1.301334	.1214463
ICV_volM2	1.84e-06	2.73e-06	0.67	0.501	-3.54e-06	7.22e-06
_cons	-.8541706	4.396429	-0.19	0.846	-9.53904	7.830699

557 .
558 . save, replace
file **finaldata_imputed.dta** saved

559 .
560 .
561 .
562 .
563 .
564 . capture log close