```
. 
. 
. ////////////////////////////////////////////////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 sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =        74
-------------+----------------------------------   F(6, 67)        =      7.71
       Model |  3161844.4         6  526974.066   Prob > F        =    0.0000
    Residual |  4577672.47       67  68323.4697   R-squared       =    0.4085
-------------+----------------------------------   Adj R-squared   =    0.3556
       Total |  7739516.87       73  106020.779   Root MSE        =    261.39

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |  -6.358199   73.58911    -0.09   0.931               -.0103999
         Sex |   34.42944   82.95157     0.42   0.679                .053055
       w1Age |  -8.401735   4.161038    -2.02   0.047               -.2520762
        Race |          0  (omitted)                                        .
     PovStat |  -226.0558   74.81627    -3.02   0.004               -.3412307
 TIME_V1SCAN |   .0225053   .0604604     0.37   0.711                .0397651
   ICV_volM2 |   .0013043   .0003456     3.77   0.000                .4879405
       _cons |       2339   456.6844     5.12   0.000                       .
------------------------------------------------------------------------------

. reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =        74
-------------+----------------------------------   F(6, 67)        =      8.27
       Model |  3252044.26         6  542007.377   Prob > F        =    0.0000
    Residual |  4393144.72       67  65569.3242   R-squared       =    0.4254
-------------+----------------------------------   Adj R-squared   =    0.3739
       Total |  7645188.98       73  104728.616   Root MSE        =    256.07

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |   6.767405   72.09065     0.09   0.925                .0111373
         Sex |   19.79455   81.26247     0.24   0.808                .0306906
       w1Age |  -8.541307   4.076309    -2.10   0.040               -.2578399
        Race |          0  (omitted)                                        .
     PovStat |   -202.953   73.29283    -2.77   0.007               -.3082413
 TIME_V1SCAN |   .0437382   .0592293     0.74   0.463                .0777571
   ICV_volM2 |    .001457   .0003386     4.30   0.000                .5483987
       _cons |   2339.15   447.3852     5.23   0.000                       .
------------------------------------------------------------------------------
```

```
18 .
19 . //ANALYSIS C//
20 . reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	133.512749	6	22.2521248	Number of obs	= 74
Residual	602.62766	67	8.99444269	F(6, 67)	= 2.47
				Prob > F	= 0.0320
Total	736.140409	73	10.0841152	R-squared	= 0.1814
				Adj R-squared	= 0.1081
				Root MSE	= 2.9991

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	1.611988	.8443368	1.91	0.061	.2703534
Sex	.3198221	.9517585	0.34	0.738	.0505338
w1Age	.0281886	.0477424	0.59	0.557	.0867186
Race	0	(omitted)			.
PovStat	-.10995	.8584169	-0.13	0.898	-.0170178
TIME_V1SCAN	-.0008185	.0006937	-1.18	0.242	-.1482991
ICV_volM2	4.70e-06	3.97e-06	1.18	0.240	.1801736
_cons	-2.967853	5.239844	-0.57	0.573	.

```
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 sample_final==1 &
```

```
Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         74
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         66
DF adjustment:   Small sample                   DF:     min       =      64.09
                                                        avg       =      64.09
                                                        max       =      64.09
Model F test:       Equal FMI                   F(   7,   64.1)   =       6.64
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-38.00275	85.82275	-0.44	0.659	-209.4489	133.4434
Sex	26.38201	83.98706	0.31	0.754	-141.397	194.1611
w1Age	-6.711308	4.784625	-1.40	0.166	-16.26945	2.846829
Race	0	(omitted)				
PovStat	-219.6944	75.59615	-2.91	0.005	-370.7112	-68.67769
TIME_V1SCAN	.0206297	.0607317	0.34	0.735	-.1006926	.1419521
w1BMI	-4.225061	5.837316	-0.72	0.472	-15.88613	7.436013
ICV_volM2	.0013171	.0003473	3.79	0.000	.0006233	.0020109
_cons	2434.244	476.8322	5.11	0.000	1481.687	3386.801

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

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         74
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         66
DF adjustment:   Small sample                   DF:     min       =      64.09
                                                        avg       =      64.09
                                                        max       =      64.09
Model F test:       Equal FMI                   F(   7,   64.1)   =       7.29
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |  -40.77472   83.62284    -0.49   0.627    -207.8262    126.2767
         Sex |   7.704265    81.8342     0.09   0.925    -155.7741    171.1826
       w1Age |  -6.001645    4.66198    -1.29   0.203    -15.31478    3.311487
        Race |           0  (omitted)
     PovStat |  -193.3959   73.65839    -2.63   0.011    -340.5416   -46.25019
 TIME_V1SCAN |   .0409203   .0591749     0.69   0.492    -.0772921    .1591328
       w1BMI |  -6.347645   5.687687    -1.12   0.269    -17.70981    5.014519
   ICV_volM2 |   .0014762   .0003384     4.36   0.000     .0008002    .0021522
       _cons |   2482.243   464.6095     5.34   0.000     1554.103    3410.383
------------------------------------------------------------------------------

31 .
32 . //ANALYSIS C//
33 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final==1 & R

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         74
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         66
DF adjustment:   Small sample                   DF:     min       =      64.09
                                                        avg       =      64.09
                                                        max       =      64.09
Model F test:       Equal FMI                   F(   7,   64.1)   =       2.49
Within VCE type:          OLS                   Prob > F          =     0.0252

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |   2.360651     .97191     2.43   0.018      .419088    4.302213
         Sex |   .5102121   .9511215     0.54   0.594    -1.389822    2.410246
       w1Age |  -.0118044   .0541841    -0.22   0.828    -.1200467    .0964379
        Race |           0  (omitted)
     PovStat |  -.2604496   .8560977    -0.30   0.762    -1.970657    1.449758
 TIME_V1SCAN |  -.0007742   .0006878    -1.13   0.265    -.0021481    .0005998
       w1BMI |   .0999586   .0661054     1.51   0.135    -.0320986    .2320158
   ICV_volM2 |   4.40e-06   3.93e-06     1.12   0.268    -3.46e-06    .0000123
       _cons |  -5.221191   5.399944    -0.97   0.337    -16.00854    5.566155
------------------------------------------------------------------------------
```

```
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 sample_final==1 & Race==1,beta
   note: Race omitted because of collinearity.

      Source |       SS           df       MS      Number of obs   =       105
-------------+----------------------------------   F(6, 98)        =     11.99
       Model |  6950409.51         6  1158401.59   Prob > F        =    0.0000
    Residual |  9467057.41        98  96602.6266   R-squared       =    0.4234
-------------+----------------------------------   Adj R-squared   =    0.3880
       Total |  16417466.9       104  157860.259   Root MSE        =    310.81

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |  -103.6316   75.1092    -1.38   0.171               -.1296019
         Sex |  -95.27648   84.99091    -1.12   0.265               -.1195482
       w1Age |  -3.195228   4.38251    -0.73   0.468               -.0677443
        Race |           0  (omitted)                                       .
     PovStat |  -60.92969   73.79929    -0.83   0.411               -.0673458
 TIME_V1SCAN |   .0241601   .0491332     0.49   0.624                .0397173
   ICV_volM2 |   .0019794   .0003001     6.59   0.000                .715584
       _cons |   1451.472   424.3795     3.42   0.001                      .
------------------------------------------------------------------------------

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

      Source |       SS           df       MS      Number of obs   =       105
-------------+----------------------------------   F(6, 98)        =     15.39
       Model |  9555553.42         6  1592592.24   Prob > F        =    0.0000
    Residual |  10144073.9        98  103510.958   R-squared       =    0.4851
-------------+----------------------------------   Adj R-squared   =    0.4535
       Total |  19699627.3       104  189419.494   Root MSE        =    321.73

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw1 |  -116.6859   77.74847    -1.50   0.137               -.1332175
         Sex |  -222.7057   87.97741    -2.53   0.013               -.2551013
       w1Age |   .6715583   4.536507     0.15   0.883                .0129981
        Race |           0  (omitted)                                       .
     PovStat |  -27.53293   76.39253    -0.36   0.719               -.0277816
 TIME_V1SCAN |   .0682891   .0508597     1.34   0.182                .1024842
   ICV_volM2 |   .0025951   .0003107     8.35   0.000                .8564742
       _cons |   805.5914   439.2918     1.83   0.070                      .
------------------------------------------------------------------------------
```

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

Source	SS	df	MS		
Model	200.676736	6	33.4461226	Number of obs	= 105
Residual	1678.91212	98	17.1317564	F(6, 98)	= 1.95
				Prob > F	= 0.0799
Total	1879.58886	104	18.0729698	R-squared	= 0.1068
				Adj R-squared	= 0.0521
				Root MSE	= 4.1391

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	2.666271	1.000229	2.67	0.009	.311634
Sex	.0420056	1.131824	0.04	0.970	.0049259
w1Age	-.0126647	.0583619	-0.22	0.829	-.0250951
Race	0	(omitted)			.
PovStat	1.682622	.9827853	1.71	0.090	.173816
TIME_V1SCAN	-.0006233	.0006543	-0.95	0.343	-.0957623
ICV_volM2	1.50e-06	4.00e-06	0.38	0.708	.0506524
_cons	-2.659572	5.651462	-0.47	0.639	.

```
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 sample_final==1 &
```

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 105
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 97
DF adjustment:	Small sample	DF: min	= 95.06
		avg	= 95.06
		max	= 95.06
Model F test:	Equal FMI	F(7, 95.1)	= 10.82
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-94.04136	74.7394	-1.26	0.211	-242.4166	54.33391
Sex	-83.36669	84.62714	-0.99	0.327	-251.3714	84.63806
w1Age	-2.818141	4.353396	-0.65	0.519	-11.46065	5.824372
Race	0	(omitted)				
PovStat	-62.44051	73.20925	-0.85	0.396	-207.7781	82.89704
TIME_V1SCAN	.0356711	.049256	0.72	0.471	-.0621136	.1334557
w1BMI	7.814146	4.843935	1.61	0.110	-1.802202	17.43049
ICV_volM2	.0019839	.0002977	6.66	0.000	.0013929	.002575
_cons	1140.166	463.0771	2.46	0.016	220.8493	2059.483

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

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 105
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 97
DF adjustment: **Small sample**		DF: min	= 95.06
		avg	= 95.06
		max	= 95.06
Model F test: **Equal FMI**		F(7, 95.1)	= 14.36
Within VCE type: **OLS**		Prob > F	= 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-103.4927	76.56638	-1.35	0.180	-255.4949	48.50955
Sex	-206.3216	86.69582	-2.38	0.019	-378.4331	-34.21001
w1Age	1.190312	4.459813	0.27	0.790	-7.663463	10.04409
Race	0	(omitted)				
PovStat	-29.61134	74.99882	-0.39	0.694	-178.5016	119.2789
TIME_V1SCAN	.0841246	.05046	1.67	0.099	-.0160504	.1842996
w1BMI	10.74981	4.962343	2.17	0.033	.8983986	20.60123
ICV_volM2	.0026014	.000305	8.53	0.000	.0019959	.0032069
_cons	377.3324	474.3969	0.80	0.428	-564.4568	1319.122

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

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 105
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 97
DF adjustment: **Small sample**		DF: min	= 95.06
		avg	= 95.06
		max	= 95.06
Model F test: **Equal FMI**		F(7, 95.1)	= 1.70
Within VCE type: **OLS**		Prob > F	= 0.1175

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.709534	1.007055	2.69	0.008	.7102939	4.708774
Sex	.0957317	1.140284	0.08	0.933	-2.168	2.359464
w1Age	-.0109637	.0586586	-0.19	0.852	-.1274147	.1054874
Race	0	(omitted)				
PovStat	1.675807	.986437	1.70	0.093	-.2825025	3.634116
TIME_V1SCAN	-.0005714	.0006637	-0.86	0.391	-.0018889	.0007462
w1BMI	.0352503	.0652682	0.54	0.590	-.0943224	.164823
ICV_volM2	1.52e-06	4.01e-06	0.38	0.706	-6.44e-06	9.48e-06
_cons	-4.063899	6.2396	-0.65	0.516	-16.45097	8.323172

```
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 if sample_fi

   Multiple-imputation estimates                 Imputations       =          5
   Linear regression                             Number of obs     =        179
                                                 Average RVI       =     0.0000
                                                 Largest FMI       =     0.0000
                                                 Complete DF       =        169
   DF adjustment:   Small sample                 DF:     min       =     167.03
                                                         avg       =     167.03
                                                         max       =     167.03
   Model F test:       Equal FMI                 F(   9,  167.0)   =      15.67
   Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |   -75.8096   65.60414    -1.16   0.250    -205.3297    53.71055
               |
          Race |
        AfrAm  |  -260.2224   178.5799    -1.46   0.147    -612.7869    92.34212
               |
Race#c.LnNFLw1 |
        AfrAm  |   85.98341   88.37906     0.97   0.332    -88.50054    260.4674
               |
           Sex |  -28.47875   60.53477    -0.47   0.639    -147.9906    91.03311
         w1Age |  -5.893159   3.070426    -1.92   0.057      -11.955    .1686843
          Race |          0  (omitted)
       PovStat |  -136.3797   52.29295    -2.61   0.010    -239.6199   -33.13937
   TIME_V1SCAN |   .0196849   .0377044     0.52   0.602    -.0547536    .0941235
         w1BMI |   2.568116   3.608855     0.71   0.478     -4.55673    9.692962
      ICV_volM2 |    .001686    .000225     7.49   0.000     .0012418    .0021303
          _cons |    1860.42    333.881     5.57   0.000      1201.25    2519.591
------------------------------------------------------------------------------

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

   Multiple-imputation estimates                 Imputations       =          5
   Linear regression                             Number of obs     =        179
                                                 Average RVI       =     0.0000
                                                 Largest FMI       =     0.0000
                                                 Complete DF       =        169
   DF adjustment:   Small sample                 DF:     min       =     167.03
                                                         avg       =     167.03
                                                         max       =     167.03
   Model F test:       Equal FMI                 F(   9,  167.0)   =      18.30
   Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-63.75557	67.78397	-0.94	0.348	-197.5793	70.06815
Race						
AfrAm	-255.4588	184.5136	-1.38	0.168	-619.738	108.8204
Race#c.LnNFLw1						
AfrAm	84.53142	91.31564	0.93	0.356	-95.75011	264.813
Sex	-104.7303	62.54617	-1.67	0.096	-228.2132	18.75262
w1Age	-4.274684	3.172447	-1.35	0.180	-10.53795	1.988576
Race	0	(omitted)				
PovStat	-109.3181	54.03049	-2.02	0.045	-215.9888	-2.647455
TIME_V1SCAN	.0531392	.0389572	1.36	0.174	-.0237728	.1300511
w1BMI	2.95044	3.728766	0.79	0.430	-4.411143	10.31202
ICV_volM2	.0021162	.0002325	9.10	0.000	.0016572	.0025753
_cons	1470.063	344.9749	4.26	0.000	788.9905	2151.136

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

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 169
DF adjustment: Small sample — DF: min = 167.03
avg = 167.03
max = 167.03
Model F test: Equal FMI — F(9, 167.0) = 2.51
Within VCE type: OLS — Prob > F = 0.0102

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.498087	.8311381	3.01	0.003	.8571981	4.138977
Race						
AfrAm	1.937549	2.262426	0.86	0.393	-2.529087	6.404185
Race#c.LnNFLw1						
AfrAm	-.2929593	1.119673	-0.26	0.794	-2.503494	1.917576
Sex	.3602476	.7669144	0.47	0.639	-1.153847	1.874342
w1Age	.0021176	.0388992	0.05	0.957	-.0746799	.078915
Race	0	(omitted)				
PovStat	.8212899	.6624987	1.24	0.217	-.4866601	2.12924
TIME_V1SCAN	-.0006621	.0004777	-1.39	0.168	-.0016051	.000281
w1BMI	.0586706	.0457205	1.28	0.201	-.031594	.1489352
ICV_volM2	2.06e-06	2.85e-06	0.72	0.472	-3.57e-06	7.69e-06
_cons	-4.820375	4.229934	-1.14	0.256	-13.1714	3.530649

```
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     =         74
                                                 Average RVI       =     0.0087
                                                 Largest FMI       =     0.0643
                                                 Complete DF       =         64
   DF adjustment:   Small sample                 DF:     min       =      55.45
                                                         avg       =      61.08
                                                         max       =      62.05
   Model F test:       Equal FMI                 F(   9,   62.0)   =       6.03
   Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |  -62.24114   87.73721    -0.71   0.481    -237.6261    113.1438
         Sex |   22.97723   82.50392     0.28   0.782     -141.969    187.9235
       w1Age |  -4.879436   4.907853    -0.99   0.324    -14.69028    4.931405
        Race |           0  (omitted)
     PovStat |  -220.7932   73.57264    -3.00   0.004    -367.8603   -73.7261
 TIME_V1SCAN |   .0099781   .0595406     0.17   0.867    -.1090407    .1289969
       w1BMI |  -5.915442   5.739545    -1.03   0.307    -17.38862    5.557741
w1dxDiabetes |  -80.73287   60.97053    -1.32   0.191    -202.8985    41.43275
   w1Glucose |   4.111424   1.746412     2.35   0.022     .6185759    7.604271
   ICV_volM2 |   .0011746   .0003466     3.39   0.001     .0004816    .0018677
       _cons |   2291.579   470.4509     4.87   0.000     1351.168     3231.99
------------------------------------------------------------------------------

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     =         74
                                                 Average RVI       =     0.0020
                                                 Largest FMI       =     0.0108
                                                 Complete DF       =         64
   DF adjustment:   Small sample                 DF:     min       =      61.41
                                                         avg       =      61.89
                                                         max       =      62.06
   Model F test:       Equal FMI                 F(   9,   62.1)   =       7.95
   Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-48.72315	81.66978	-0.60	0.553	-211.9847	114.5384
Sex	-5.875064	76.56983	-0.08	0.939	-158.9409	147.1908
w1Age	-4.877442	4.567927	-1.07	0.290	-14.00903	4.254142
Race	0	(omitted)				
PovStat	-195.8194	68.43409	-2.86	0.006	-332.6144	-59.02439
TIME_V1SCAN	.0324939	.0553746	0.59	0.559	-.0781963	.1431842
w1BMI	-8.339839	5.341684	-1.56	0.124	-19.01794	2.338267
w1dxDiabetes	-57.56606	55.23857	-1.04	0.301	-168.0077	52.87555
w1Glucose	5.346139	1.610128	3.32	0.002	2.127413	8.564864
ICV_volM2	.0013264	.0003213	4.13	0.000	.000684	.0019687
_cons	2245.681	437.5157	5.13	0.000	1371.115	3120.246

```
 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 = 74
Average RVI = 0.0020
Largest FMI = 0.0192
Complete DF = 64
DF adjustment: **Small sample** — DF: min = 60.70
avg = 61.87
max = 62.09
Model F test: **Equal FMI** — F(9, 62.1) = 1.90
Within VCE type: **OLS** — Prob > F = 0.0689

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.366877	1.035944	2.28	0.026	.2960338	4.437719
Sex	.5347419	.9704888	0.55	0.584	-1.405185	2.474669
w1Age	-.01315	.0579338	-0.23	0.821	-.1289597	.1026597
Race	0	(omitted)				
PovStat	-.2580325	.8684206	-0.30	0.767	-1.993931	1.477866
TIME_V1SCAN	-.0007638	.0007028	-1.09	0.281	-.0021686	.000641
w1BMI	.1028994	.0677294	1.52	0.134	-.032487	.2382858
w1dxDiabetes	.0673641	.7039412	0.10	0.924	-1.340392	1.47512
w1Glucose	-.0076459	.0204695	-0.37	0.710	-.0485685	.0332767
ICV_volM2	4.59e-06	4.07e-06	1.13	0.264	-3.55e-06	.0000127
_cons	-4.864048	5.551723	-0.88	0.384	-15.96147	6.233373

```
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 = 105
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 95
DF adjustment: Small sample — DF: min = 93.06
avg = 93.06
max = 93.06
Model F test: Equal FMI — F(9, 93.1) = 8.36
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-111.6542	81.58549	-1.37	0.174	-273.6655	50.35697
Sex	-93.54561	86.38106	-1.08	0.282	-265.0798	77.98857
w1Age	-2.928006	4.437966	-0.66	0.511	-11.74085	5.88484
Race	0	(omitted)				
PovStat	-69.29682	74.29012	-0.93	0.353	-216.821	78.22736
TIME_V1SCAN	.0434966	.0506754	0.86	0.393	-.0571337	.144127
w1BMI	6.68633	5.094426	1.31	0.193	-3.430103	16.80276
w1dxDiabetes	28.8385	67.94456	0.42	0.672	-106.0848	163.7618
w1Glucose	.291531	1.479706	0.20	0.844	-2.646846	3.229908
ICV_volM2	.001979	.0003029	6.53	0.000	.0013775	.0025805
_cons	1189.39	496.9025	2.39	0.019	202.6483	2176.131

```
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 = 105
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 95
DF adjustment: Small sample — DF: min = 93.06
avg = 93.06
max = 93.06
Model F test: Equal FMI — F(9, 93.1) = 11.08
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-128.7242	83.55112	-1.54	0.127	-294.6388	37.19031
Sex	-217.7574	88.46223	-2.46	0.016	-393.4243	-42.09045
w1Age	1.348028	4.54489	0.30	0.767	-7.677144	10.3732
Race	0	(omitted)				
PovStat	-35.67366	76.07999	-0.47	0.640	-186.7521	115.4048
TIME_V1SCAN	.0908903	.0518963	1.75	0.083	-.0121645	.1939451
w1BMI	9.666363	5.217166	1.85	0.067	-.6938048	20.02653
w1dxDiabetes	5.118204	69.58154	0.07	0.942	-133.0558	143.2922
w1Glucose	.8398709	1.515356	0.55	0.581	-2.1693	3.849042
ICV_volM2	.0026132	.0003102	8.42	0.000	.0019972	.0032292
_cons	361.6543	508.8743	0.71	0.479	-648.8605	1372.169

```
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     =        105
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         95
DF adjustment:   Small sample                   DF:     min       =      93.06
                                                        avg       =      93.06
                                                        max       =      93.06
Model F test:       Equal FMI                   F(   9,   93.1)   =       1.42
Within VCE type:          OLS                   Prob > F          =     0.1913

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw1 |   3.093677   1.097117     2.82   0.006     .9150383    5.272316
         Sex |    .280786   1.161606     0.24   0.810    -2.025912    2.587484
       w1Age |  -.0122684   .0596794    -0.21   0.838    -.1307788    .1062419
        Race |          0  (omitted)
     PovStat |   1.781186   .9990132     1.78   0.078    -.2026388    3.765011
  TIME_V1SCAN |  -.0006898   .0006815    -1.01   0.314    -.0020431    .0006634
       w1BMI |   .0535974   .0685071     0.78   0.436    -.0824429    .1896377
w1dxDiabetes |  -.2038654   .9136815    -0.22   0.824     -2.01824    1.610509
   w1Glucose |  -.0113176   .0198983    -0.57   0.571    -.0508313    .0281961
   ICV_volM2 |   1.41e-06   4.07e-06     0.35   0.731    -6.68e-06    9.49e-06
       _cons |  -4.125121   6.682075    -0.62   0.539    -17.39428    9.14404
------------------------------------------------------------------------------

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     =        179
                                                Average RVI       =     0.0035
                                                Largest FMI       =     0.0379
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     150.90
                                                        avg       =     163.47
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =      13.04
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-110.9607	69.5279	-1.60	0.112	-248.2398	26.31852
Race						
AfrAm	-325.0225	183.3459	-1.77	0.078	-687.0286	36.98357
Race#c.LnNFLw1						
AfrAm	121.2835	91.15676	1.33	0.185	-58.70038	301.2673
Sex	-40.89512	61.0508	-0.67	0.504	-161.4365	79.64629
w1Age	-5.706097	3.131221	-1.82	0.070	-11.88858	.4763891
Race	0	(omitted)				
PovStat	-142.0743	52.34823	-2.71	0.007	-245.4329	-38.71577
TIME_V1SCAN	.0257788	.038096	0.68	0.500	-.0494398	.1009975
w1BMI	1.373428	3.692523	0.37	0.710	-5.917257	8.664114
w1dxDiabetes	-1.742345	45.79427	-0.04	0.970	-92.22309	88.7384
w1Glucose	1.371714	1.115553	1.23	0.221	-.8312749	3.574702
ICV_volM2	.0016923	.0002248	7.53	0.000	.0012485	.0021361
_cons	1825.685	342.8773	5.32	0.000	1148.684	2502.686

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 = 179
Average RVI = 0.0002
Largest FMI = 0.0023
Complete DF = 167
DF adjustment: Small sample — DF: min = 164.66
avg = 164.99
max = 165.04
Model F test: Equal FMI — F(11, 165.0) = 15.67
Within VCE type: OLS — Prob > F = 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-113.5233	71.32109	-1.59	0.113	-254.3428	27.29607
Race						
AfrAm	-350.7107	188.095	-1.86	0.064	-722.0935	20.67209
Race#c.LnNFLw1						
AfrAm	136.092	93.52009	1.46	0.148	-48.55805	320.742
Sex	-123.3025	62.63051	-1.97	0.051	-246.9629	.3578239
w1Age	-4.107155	3.210241	-1.28	0.203	-10.4456	2.231285
Race	0	(omitted)				
PovStat	-117.6083	53.70646	-2.19	0.030	-223.6486	-11.568
TIME_V1SCAN	.0626818	.0390762	1.60	0.111	-.0144718	.1398355
w1BMI	1.175368	3.78797	0.31	0.757	-6.303761	8.654497
w1dxDiabetes	5.382747	46.16101	0.12	0.907	-85.76107	96.52656
w1Glucose	1.862021	1.136464	1.64	0.103	-.3818764	4.105918
ICV_volM2	.0021253	.0002306	9.22	0.000	.00167	.0025806
_cons	1432.8	351.4862	4.08	0.000	738.8099	2126.79

```
. 
. //ANALYSIS C//
. 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     =        179
                                                Average RVI       =     0.0002
                                                Largest FMI       =     0.0023
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     164.66
                                                        avg       =     164.99
                                                        max       =     165.04
Model F test:       Equal FMI                   F(  11,  165.0)   =       2.15
Within VCE type:          OLS                   Prob > F          =     0.0194

------------------------------------------------------------------------------
LnLesion_Vol~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |   2.783001   .8840738     3.15   0.002     1.037448    4.528554
               |
          Race |
         AfrAm |   2.529013   2.331578     1.08   0.280    -2.074553    7.132579
               |
Race#c.LnNFLw1 |
         AfrAm |  -.6093748    1.15925    -0.53   0.600    -2.898248    1.679499
               |
           Sex |   .4776212   .7763645     0.62   0.539    -1.055266    2.010509
         w1Age |   .0024046   .0397926     0.06   0.952    -.0761637    .0809729
          Race |          0  (omitted)
       PovStat |   .8721799   .6657322     1.31   0.192      -.44227     2.18663
    TIME_V1SCAN |  -.0007282   .0004844    -1.50   0.135    -.0016846    .0002282
         w1BMI |   .0698099   .0469552     1.49   0.139    -.0229005    .1625203
   w1dxDiabetes |  -.1279618   .5722001    -0.22   0.823    -1.257757    1.001834
      w1Glucose |  -.0096899   .0140869    -0.69   0.493    -.0375037     .018124
      ICV_volM2 |   2.01e-06   2.86e-06     0.70   0.484    -3.64e-06    7.65e-06
          _cons |  -4.757355   4.356876    -1.09   0.276    -13.35976    3.845053
------------------------------------------------------------------------------

. 
. save, replace
file finaldata_imputed.dta saved

. 
. 
. ***********MODEL 4: MODEL 2+liver/kidney disease******
. 
. //AFRICAN-AMERICAN//
. 
. use finaldata_imputed,clear

. 
. 
.
```

```
144 . //ANALYSIS B//
145 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
    > 2

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =         74
                                                  Average RVI       =     0.1204
                                                  Largest FMI       =     0.6234
                                                  Complete DF       =         61
    DF adjustment:   Small sample                 DF:     min       =       8.58
                                                          avg       =      50.67
                                                          max       =      58.69
    Model F test:       Equal FMI                 F(  11,   57.2)   =       3.61
    Within VCE type:          OLS                 Prob > F          =     0.0007

    ------------------------------------------------------------------------------
    Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
         LnNFLw1 |  -32.38699   94.67995    -0.34   0.734    -222.3738    157.5998
             Sex |   22.24142   121.5399     0.18   0.856    -223.6394    268.1222
           w1Age |  -6.622047   5.648811    -1.17   0.246    -17.92809    4.683995
            Race |           0  (omitted)
         PovStat |  -210.7129   79.67188    -2.64   0.011    -370.2246   -51.20116
     TIME_V1SCAN |   .0141827   .0662193     0.21   0.831    -.1186939    .1470593
           w1BMI |  -2.967164   6.591715    -0.45   0.654    -16.15861    10.22428
    w1Creatinine |    94.2276   234.1046     0.40   0.697    -439.2907    627.7459
     w1USpecGrav |  -4636.801   5259.011    -0.88   0.382    -15166.04    5892.439
           w1BUN |   .1933146   11.19181     0.02   0.986    -22.27704    22.66367
           w1ALP |  -.2406371   1.689214    -0.14   0.887    -3.624611    3.143336
      w1UricAcid |   -13.3002   30.02616    -0.44   0.660     -73.4603    46.85991
       ICV_volM2 |   .0013231    .000388     3.41   0.001     .0005454    .0021007
           _cons |   7113.202   5353.017     1.33   0.189     -3601.87    17828.27
    ------------------------------------------------------------------------------

146 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
    > =2

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =         74
                                                  Average RVI       =     0.0511
                                                  Largest FMI       =     0.3820
                                                  Complete DF       =         61
    DF adjustment:   Small sample                 DF:     min       =      18.37
                                                          avg       =      54.05
                                                          max       =      58.96
    Model F test:       Equal FMI                 F(  11,   58.6)   =       4.37
    Within VCE type:          OLS                 Prob > F          =     0.0001

    ------------------------------------------------------------------------------
    Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
         LnNFLw1 |  -45.41348   90.78748    -0.50   0.619    -227.3443    136.5173
             Sex |  -27.82467   112.6511    -0.25   0.806    -253.9398    198.2905
           w1Age |  -6.779229   5.458635    -1.24   0.219     -17.7021    4.143641
            Race |           0  (omitted)
         PovStat |  -198.8452   76.72905    -2.59   0.012    -352.3927   -45.29771
     TIME_V1SCAN |   .0505098   .0632553     0.80   0.428     -.076205    .1772246
           w1BMI |  -8.314222   6.394648    -1.30   0.199    -21.11091    4.482469
    w1Creatinine |   86.83815   185.7556     0.47   0.646    -302.8535    476.5298
     w1USpecGrav |   237.6194   5095.234     0.05   0.963    -9962.313    10437.55
           w1BUN |   11.17375   10.62459     1.05   0.297    -10.10673    32.45424
           w1ALP |  -.2767773   1.625345    -0.17   0.865    -3.530607    2.977052
      w1UricAcid |  -10.00655   28.81172    -0.35   0.730    -67.68159    47.66849
       ICV_volM2 |   .0015792   .0003726     4.24   0.000     .0008331    .0023253
           _cons |   2108.417   5192.726     0.41   0.686    -8285.296    12502.13
    ------------------------------------------------------------------------------
```

```
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     =         74
                                                    Average RVI       =     0.0135
                                                    Largest FMI       =     0.0595
                                                    Complete DF       =         61
    DF adjustment:   Small sample                   DF:     min       =      53.52
                                                            avg       =      57.99
                                                            max       =      58.87
    Model F test:       Equal FMI                   F(  11,   59.0)   =       1.83
    Within VCE type:          OLS                   Prob > F          =     0.0691

    ------------------------------------------------------------------------------
    LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
         LnNFLw1 |   2.281103   1.030348     2.21   0.031     .2188569    4.343349
             Sex |    .415251   1.254183     0.33   0.742    -2.094491    2.924993
           w1Age |   .0008309   .0631389     0.01   0.990    -.1255326    .1271944
            Race |           0  (omitted)
         PovStat |  -.0767695   .8882236    -0.09   0.931    -1.854647    1.701108
     TIME_V1SCAN |  -.0009447   .0007249    -1.30   0.198    -.0023961    .0005067
           w1BMI |    .111049   .0741995     1.50   0.140    -.0374906    .2595887
    w1Creatinine |   1.563545   1.789661     0.87   0.386    -2.025254    5.152344
     w1USpecGrav |  -77.44488   58.49397    -1.32   0.191    -194.5118    39.62205
           w1BUN |    .052385   .1208678     0.43   0.666    -.1894951     .294265
           w1ALP |  -.0106696   .0185981    -0.57   0.568     -.047886    .0265468
      w1UricAcid |  -.3417972    .330931    -1.03   0.306     -1.00411    .3205155
       ICV_volM2 |   4.80e-06   4.26e-06     1.12   0.265    -3.74e-06    .0000133
           _cons |   73.32848   59.73154     1.23   0.224    -46.21417    192.8711
    ------------------------------------------------------------------------------

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
    > 1
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 105
Average RVI = 0.0181
Largest FMI = 0.1121
Complete DF = 92
DF adjustment: **Small sample** — DF: min = 66.00
avg = 84.22
max = 89.96
Model F test: **Equal FMI** — F(11, 89.9) = 6.92
Within VCE type: **OLS** — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-105.9754	77.99683	-1.36	0.178	-260.9338	48.98304
Sex	-97.94924	106.4054	-0.92	0.360	-309.3726	113.4742
w1Age	-2.238842	4.535047	-0.49	0.623	-11.24856	6.770878
Race	0	(omitted)				
PovStat	-58.03509	74.78925	-0.78	0.440	-206.6217	90.55152
TIME_V1SCAN	.035944	.0515303	0.70	0.487	-.06644	.138328
w1BMI	6.971719	5.40487	1.29	0.200	-3.766268	17.70971
w1Creatinine	-102.4406	204.994	-0.50	0.619	-511.7246	306.8434
w1USpecGrav	-962.4941	6236.402	-0.15	0.878	-13401.96	11476.97
w1BUN	12.27572	9.269335	1.32	0.189	-6.161691	30.71312
w1ALP	-1.764376	1.539886	-1.15	0.255	-4.823747	1.294994
w1UricAcid	.4020883	27.89109	0.01	0.989	-55.01329	55.81747
ICV_volM2	.0020568	.0003148	6.53	0.000	.0014314	.0026823
_cons	2096.997	6236.121	0.34	0.738	-10340.86	14534.86

163 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
> =1

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 105
Average RVI = 0.0154
Largest FMI = 0.1056
Complete DF = 92
DF adjustment: **Small sample** — DF: min = 67.72
avg = 84.48
max = 90.05
Model F test: **Equal FMI** — F(11, 89.9) = 9.03
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-127.2779	80.04171	-1.59	0.115	-286.2961	31.74034
Sex	-203.6701	109.4009	-1.86	0.066	-421.057	13.71677
w1Age	1.325301	4.654324	0.28	0.776	-7.921253	10.57185
Race	0	(omitted)				
PovStat	-25.44553	76.7769	-0.33	0.741	-177.9799	127.0889
TIME_V1SCAN	.0784456	.052927	1.48	0.142	-.0267144	.1836056
w1BMI	10.76364	5.547763	1.94	0.055	-.2581084	21.7854
w1Creatinine	-19.0933	208.5684	-0.09	0.927	-434.9803	396.7937
w1USpecGrav	-420.5493	6426.332	-0.07	0.948	-13245.07	12403.97
w1BUN	13.93673	9.479823	1.47	0.145	-4.913619	32.78708
w1ALP	-.4492366	1.579983	-0.28	0.777	-3.5882	2.689727
w1UricAcid	-16.10095	28.55975	-0.56	0.574	-72.83982	40.63792
ICV_volM2	.0026211	.0003231	8.11	0.000	.0019793	.003263
_cons	756.0437	6428.794	0.12	0.907	-12073.02	13585.11

```
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	= 105
		Average RVI	= 0.0052
		Largest FMI	= 0.0514
		Complete DF	= 92
DF adjustment:	Small sample	DF: min	= 81.50
		avg	= 89.03
		max	= 90.04
Model F test:	Equal FMI	F(11, 90.0)	= 1.42
Within VCE type:	OLS	Prob > F	= 0.1797

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.757244	1.046557	2.63	0.010	.678083	4.836405
Sex	-.9435204	1.424352	-0.66	0.509	-3.773322	1.886281
w1Age	-.0152744	.0608885	-0.25	0.802	-.1362393	.1056904
Race	0	(omitted)				
PovStat	1.442921	1.003492	1.44	0.154	-.550691	3.436533
TIME_V1SCAN	-.0006881	.0006907	-1.00	0.322	-.0020603	.0006841
w1BMI	-.0121552	.0725226	-0.17	0.867	-.1562334	.1319229
w1Creatinine	-.4390173	2.671601	-0.16	0.870	-5.754168	4.876133
w1USpecGrav	117.3272	80.28242	1.46	0.147	-42.1999	276.8544
w1BUN	-.0004007	.1223769	-0.00	0.997	-.2435637	.2427623
w1ALP	-.0064081	.0206544	-0.31	0.757	-.0474415	.0346254
w1UricAcid	.3831209	.3738775	1.02	0.308	-.359668	1.12591
ICV_volM2	2.41e-06	4.22e-06	0.57	0.570	-5.98e-06	.0000108
_cons	-122.555	80.34474	-1.53	0.131	-282.2073	37.09725

```
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	= 179
		Average RVI	= 0.0419
		Largest FMI	= 0.3870
		Complete DF	= 164
DF adjustment:	Small sample	DF: min	= 25.15
		avg	= 146.60
		max	= 161.92
Model F test:	Equal FMI	F(13, 160.7)	= 10.33
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-85.3246	68.23129	-1.25	0.213	-220.0736	49.42441
Race						
AfrAm	-255.2646	187.9865	-1.36	0.177	-626.6587	116.1295
Race#c.LnNFLw1						
AfrAm	92.41925	91.69964	1.01	0.315	-88.7113	273.5498
Sex	-39.14595	77.77643	-0.50	0.616	-192.9277	114.6358
w1Age	-6.000881	3.281812	-1.83	0.069	-12.48159	.4798284
Race	0	(omitted)				
PovStat	-133.4207	53.14768	-2.51	0.013	-238.3732	-28.46806
TIME_V1SCAN	.0173688	.0383989	0.45	0.652	-.0584613	.093199
w1BMI	2.293407	4.012472	0.57	0.568	-5.630112	10.21693
w1Creatinine	12.83697	145.7066	0.09	0.930	-287.1578	312.8317
w1USpecGrav	-1609.84	3973.325	-0.41	0.686	-9462.591	6242.911
w1BUN	6.930816	6.892116	1.01	0.316	-6.692003	20.55363
w1ALP	-.843838	1.112092	-0.76	0.449	-3.039952	1.352276
w1UricAcid	-5.029264	19.96638	-0.25	0.801	-44.45916	34.40063
ICV_volM2	.0017142	.000234	7.32	0.000	.0012521	.0021764
_cons	3489.774	4005.015	0.87	0.385	-4425.716	11405.26

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	= 179
		Average RVI	= 0.0137
		Largest FMI	= 0.1347
		Complete DF	= 164
DF adjustment:	Small sample	DF: min	= 90.46
		avg	= 154.98
		max	= 161.92
Model F test:	Equal FMI	F(13, 161.8)	= 12.66
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-89.33034	69.95145	-1.28	0.203	-227.4666	48.80597
Race						
AfrAm	-262.1329	191.2926	-1.37	0.172	-639.9086	115.6428
Race#c.LnNFLw1						
AfrAm	99.5104	93.6196	1.06	0.289	-85.37038	284.3912
Sex	-113.4531	78.4062	-1.45	0.150	-268.3086	41.40239
w1Age	-4.318645	3.375519	-1.28	0.203	-10.9844	2.347108
Race	0	(omitted)				
PovStat	-107.7378	54.64795	-1.97	0.050	-215.6523	.1768221
TIME_V1SCAN	.0477365	.0394784	1.21	0.228	-.0302248	.1256978
w1BMI	2.584043	4.128896	0.63	0.532	-5.569437	10.73752
w1Creatinine	57.8998	129.4466	0.45	0.656	-199.2509	315.0504
w1USpecGrav	759.0653	4068.835	0.19	0.852	-7280.345	8798.475
w1BUN	10.39532	6.968239	1.49	0.138	-3.366566	24.1572
w1ALP	-.1490371	1.143985	-0.13	0.897	-2.408136	2.110062
w1UricAcid	-16.09825	20.50247	-0.79	0.433	-56.58546	24.38896
ICV_volM2	.00213	.0002407	8.85	0.000	.0016546	.0026054
_cons	660.1075	4099.61	0.16	0.872	-7440.025	8760.24

```
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	= **179**
		Average RVI	= **0.0013**
		Largest FMI	= **0.0136**
		Complete DF	= **164**
DF adjustment: **Small sample**		DF: min	= **158.80**
		avg	= **161.69**
		max	= **162.01**
Model F test: **Equal FMI**		F(**13**, **162.0**)	= **1.82**
Within VCE type: **OLS**		Prob > F	= **0.0440**

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	**2.421109**	**.8626664**	**2.81**	**0.006**	**.7175882**	**4.12463**
Race						
AfrAm	**1.806318**	**2.352927**	**0.77**	**0.444**	**-2.840051**	**6.452687**
Race#c.LnNFLw1						
AfrAm	**-.1739186**	**1.152704**	**-0.15**	**0.880**	**-2.450182**	**2.102345**
Sex	**-.1422883**	**.9618345**	**-0.15**	**0.883**	**-2.041661**	**1.757084**
w1Age	**-.0008986**	**.0416528**	**-0.02**	**0.983**	**-.0831515**	**.0813542**
Race	**0**	(omitted)				
PovStat	**.7757153**	**.6743955**	**1.15**	**0.252**	**-.5560244**	**2.107455**
TIME_V1SCAN	**-.0006854**	**.0004866**	**-1.41**	**0.161**	**-.0016463**	**.0002754**
w1BMI	**.037666**	**.0509363**	**0.74**	**0.461**	**-.0629187**	**.1382507**
w1Creatinine	**.402283**	**1.503444**	**0.27**	**0.789**	**-2.567041**	**3.371607**
w1USpecGrav	**32.52181**	**49.45208**	**0.66**	**0.512**	**-65.13351**	**130.1771**
w1BUN	**.0388398**	**.0855988**	**0.45**	**0.651**	**-.1301947**	**.2078744**
w1ALP	**-.0069481**	**.0141043**	**-0.49**	**0.623**	**-.0348003**	**.020904**
w1UricAcid	**.1037808**	**.2528425**	**0.41**	**0.682**	**-.3955118**	**.6030733**
ICV_volM2	**2.63e-06**	**2.97e-06**	**0.88**	**0.378**	**-3.24e-06**	**8.49e-06**
_cons	**-37.96102**	**49.83764**	**-0.76**	**0.447**	**-136.3778**	**60.45574**

```
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	= **179**
		Average RVI	= **0.0424**
		Largest FMI	= **0.3704**
		Complete DF	= **165**
		DF: min	= **27.02**
		avg	= **147.88**
DF adjustment: **Small sample**		max	= **162.99**
		F(12, .)	= .
Within VCE type: **OLS**		Prob > F	= .

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-46.08662	55.98793	-0.82	0.412	-156.6433	64.47007
Sex	-28.60585	76.77417	-0.37	0.710	-180.3579	123.1462
w1Age	-5.942988	3.282719	-1.81	0.072	-12.42523	.5392491
Race	-75.00867	55.08858	-1.36	0.175	-183.8047	33.78733
PovStat	-134.2964	53.15182	-2.53	0.012	-239.2525	-29.34037
TIME_V1SCAN	.0151062	.0383342	0.39	0.694	-.0605924	.0908048
w1BMI	2.035893	4.006237	0.51	0.612	-5.874987	9.946773
w1Creatinine	-6.016731	142.3017	-0.04	0.967	-297.985	285.9516
w1USpecGrav	-1914.674	3963.256	-0.48	0.630	-9747.328	5917.98
w1BUN	7.170885	6.876716	1.04	0.299	-6.419295	20.76107
w1ALP	-.782888	1.110225	-0.71	0.482	-2.975203	1.409427
w1UricAcid	-3.919335	19.93909	-0.20	0.844	-43.29354	35.45487
ICV_volM2	.0016723	.0002303	7.26	0.000	.0012175	.0021271
_cons	3846.925	3991.835	0.96	0.337	-4042.244	11736.09

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 = 179
Average RVI = 0.0134
Largest FMI = 0.1239
Complete DF = 165
DF: min = 96.70
avg = 155.96
DF adjustment: **Small sample** max = 162.95
F(12, .) = .
Within VCE type: **OLS** Prob > F = .

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-47.06249	57.5738	-0.82	0.415	-160.7497	66.62473
Sex	-102.101	77.60912	-1.32	0.190	-255.3695	51.16746
w1Age	-4.257574	3.375131	-1.26	0.209	-10.92222	2.407069
Race	-68.06511	56.39321	-1.21	0.229	-179.4235	43.29327
PovStat	-108.6887	54.66313	-1.99	0.048	-216.6282	-.7490662
TIME_V1SCAN	.0453079	.0394096	1.15	0.252	-.0325132	.123129
w1BMI	2.309858	4.12036	0.56	0.576	-5.826324	10.44604
w1Creatinine	37.63954	127.156	0.30	0.768	-214.7398	290.0189
w1USpecGrav	429.9676	4062.779	0.11	0.916	-7597.597	8457.532
w1BUN	10.65167	6.962272	1.53	0.128	-3.097551	24.40089
w1ALP	-.0825929	1.14218	-0.07	0.942	-2.338006	2.17282
w1UricAcid	-14.89916	20.48011	-0.73	0.468	-55.34038	25.54206
ICV_volM2	.0020848	.000237	8.80	0.000	.0016168	.0025528
_cons	1032.785	4090.817	0.25	0.801	-7050.071	9115.64

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     =        179
                                                Average RVI       =     0.0014
                                                Largest FMI       =     0.0131
                                                Complete DF       =        165
                                                DF:     min       =     159.91
                                                        avg       =     162.67
DF adjustment:   Small sample                           max       =     163.00
                                                F(  12,       .)  =          .
Within VCE type:          OLS                   Prob > F          =          .
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.347178	.7080767	3.31	0.001	.9489916	3.745365
Sex	-.162122	.9499113	-0.17	0.865	-2.037861	1.713617
w1Age	-.0010014	.0415235	-0.02	0.981	-.0829951	.0809923
Race	1.467206	.6927199	2.12	0.036	.0993423	2.835069
PovStat	.7774002	.6723053	1.16	0.249	-.5501508	2.104951
TIME_V1SCAN	-.0006812	.0004843	-1.41	0.161	-.0016376	.0002752
w1BMI	.0381352	.0506855	0.75	0.453	-.0619497	.1382201
w1Creatinine	.4374598	1.479735	0.30	0.768	-2.484883	3.359803
w1USpecGrav	33.09921	49.15378	0.67	0.502	-63.96249	130.1609
w1BUN	.0384001	.0852878	0.45	0.653	-.1300125	.2068126
w1ALP	-.0070671	.0140413	-0.50	0.615	-.0347935	.0206593
w1UricAcid	.1016758	.2517083	0.40	0.687	-.3953542	.5987057
ICV_volM2	2.71e-06	2.92e-06	0.93	0.355	-3.05e-06	8.46e-06
_cons	-39.96267	49.5063	-0.81	0.421	-137.7205	57.79519

```
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     =         74
                                                Average RVI       =     0.0628
                                                Largest FMI       =     0.4272
                                                Complete DF       =         63
DF adjustment:   Small sample                   DF:     min       =      16.04
                                                        avg       =      56.31
                                                        max       =      61.05
Model F test:       Equal FMI                   F(  10,   60.4)   =       4.66
Within VCE type:          OLS                   Prob > F          =     0.0001
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-40.09528	89.24444	-0.45	0.655	-218.6753	138.4847
Sex	15.02056	86.0511	0.17	0.862	-157.0548	187.0959
w1Age	-6.120342	4.851434	-1.26	0.212	-15.82206	3.581373
Race	0	(omitted)				
PovStat	-223.1669	76.48087	-2.92	0.005	-376.1336	-70.20017
TIME_V1SCAN	.0358564	.0643448	0.56	0.579	-.0928969	.1646096
w1BMI	-2.685876	6.06748	-0.44	0.660	-14.81929	9.447539
w1TotalD	.1972855	6.016425	0.03	0.974	-12.55448	12.94905
w1Albumin	189.069	120.6495	1.57	0.122	-52.18522	430.3232
w1EosinPct	-2.303787	18.34376	-0.13	0.900	-38.9859	34.37833
ICV_volM2	.0013265	.0003571	3.71	0.000	.0006121	.0020409
_cons	1528.11	755.009	2.02	0.047	18.40051	3037.82

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 = 74
Average RVI = 0.0472
Largest FMI = 0.3479
Complete DF = 63
DF adjustment: **Small sample** — DF: min = 20.94
avg = 56.75
max = 60.97
Model F test: **Equal FMI** — F(10, 60.6) = 5.09
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-32.77983	86.66376	-0.38	0.707	-206.1238	140.5641
Sex	-8.317525	84.36264	-0.10	0.922	-177.0423	160.4073
w1Age	-5.235692	4.755061	-1.10	0.275	-14.74607	4.274686
Race	0	(omitted)				
PovStat	-200.2926	74.59413	-2.69	0.009	-349.4701	-51.11518
TIME_V1SCAN	.0440126	.0627399	0.70	0.486	-.0815097	.169535
w1BMI	-5.402471	5.946488	-0.91	0.367	-17.29561	6.490667
w1TotalD	-2.911254	5.574358	-0.52	0.607	-14.5057	8.683187
w1Albumin	156.6912	118.0972	1.33	0.190	-79.47605	392.8584
w1EosinPct	-1.786181	17.93018	-0.10	0.921	-37.64149	34.06913
ICV_volM2	.0015276	.0003497	4.37	0.000	.0008279	.0022274
_cons	1737.949	738.3537	2.35	0.022	261.5026	3214.395

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 = 74
Average RVI = 0.0221
Largest FMI = 0.1898
Complete DF = 63
DF adjustment: **Small sample** — DF: min = 36.72
avg = 58.67
max = 61.06
Model F test: **Equal FMI** — F(10, 60.9) = 1.72
Within VCE type: **OLS** — Prob > F = 0.0962

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.372156	1.018809	2.33	0.023	.3346583	4.409653
Sex	.5656869	.9915413	0.57	0.570	-1.417091	2.548465
w1Age	-.0183154	.0558348	-0.33	0.744	-.1299659	.0933352
Race	0	(omitted)				
PovStat	-.2069948	.8782079	-0.24	0.814	-1.963167	1.549178
TIME_V1SCAN	-.0007603	.0007352	-1.03	0.305	-.0022307	.0007101
w1BMI	.0994516	.0697868	1.43	0.159	-.0400932	.2389965
w1TotalD	.0197658	.0600508	0.33	0.744	-.1019404	.1414721
w1Albumin	-.8098262	1.390903	-0.58	0.563	-3.591178	1.971526
w1EosinPct	.0773382	.2111043	0.37	0.715	-.3447854	.4994618
ICV_volM2	4.05e-06	4.09e-06	0.99	0.326	-4.12e-06	.0000122
_cons	-1.658191	8.698848	-0.19	0.849	-19.05227	15.73589

```
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     =        105
                                                    Average RVI       =     0.0106
                                                    Largest FMI       =     0.0722
                                                    Complete DF       =         94
    DF adjustment:   Small sample                   DF:     min       =      77.97
                                                            avg       =      90.26
                                                            max       =      92.04
    Model F test:       Equal FMI                   F(  10,   92.0)   =       7.41
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-89.23056	79.81573	-1.12	0.267	-247.7647	69.30355
Sex	-101.3977	88.71359	-1.14	0.256	-277.5904	74.79514
w1Age	-2.650734	4.429923	-0.60	0.551	-11.44894	6.147473
Race	0	(omitted)				
PovStat	-62.19843	74.36378	-0.84	0.405	-209.8913	85.49448
TIME_V1SCAN	.0460839	.0512992	0.90	0.371	-.0558016	.1479695
w1BMI	9.367322	5.224711	1.79	0.076	-1.009532	19.74418
w1TotalD	.9347004	3.304023	0.28	0.778	-5.64314	7.512541
w1Albumin	106.3947	132.9422	0.80	0.426	-157.6443	370.4337
w1EosinPct	-.0279324	15.30368	-0.00	0.999	-30.44218	30.38632
ICV_volM2	.0019982	.0003018	6.62	0.000	.0013987	.0025976
_cons	573.9373	809.6411	0.71	0.480	-1034.079	2181.954

```
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 = 105
Average RVI = 0.0062
Largest FMI = 0.0396
Complete DF = 94
DF adjustment: **Small sample** — DF: min = 85.88
avg = 91.18
max = 92.06
Model F test: **Equal FMI** — F(10, 92.0) = 9.76
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-94.19027	81.76229	-1.15	0.252	-256.5787	68.19819
Sex	-216.9566	91.0654	-2.38	0.019	-397.8189	-36.0943
w1Age	1.147118	4.547926	0.25	0.801	-7.885414	10.17965
Race	0	(omitted)				
PovStat	-33.23886	76.3394	-0.44	0.664	-184.8546	118.3769
TIME_V1SCAN	.0856228	.0526504	1.63	0.107	-.0189452	.1901907
w1BMI	11.45713	5.362194	2.14	0.035	.8073575	22.1069
w1TotalD	-.5147437	3.312298	-0.16	0.877	-7.096263	6.066776
w1Albumin	43.39869	136.432	0.32	0.751	-227.5674	314.3648
w1EosinPct	8.198211	15.78352	0.52	0.605	-23.17902	39.57544
ICV_volM2	.0026135	.0003099	8.43	0.000	.001998	.0032289
_cons	139.5006	831.1302	0.17	0.867	-1511.184	1790.185

```
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 = 105
Average RVI = 0.0036
Largest FMI = 0.0274
Complete DF = 94
DF adjustment: **Small sample** — DF: min = 88.31
avg = 91.60
max = 92.05
Model F test: **Equal FMI** — F(10, 92.0) = 1.56
Within VCE type: **OLS** — Prob > F = 0.1308

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	3.238409	1.059222	3.06	0.003	1.13458	5.342238
Sex	-.451512	1.178641	-0.38	0.703	-2.792419	1.889395
w1Age	-.0143142	.0588195	-0.24	0.808	-.1311341	.1025056
Race	0	(omitted)				
PovStat	1.551699	.9875645	1.57	0.120	-.4096866	3.513086
TIME_V1SCAN	-.0004341	.0006811	-0.64	0.525	-.0017869	.0009187
w1BMI	.0695025	.0693803	1.00	0.319	-.068294	.207299
w1TotalD	-.0328884	.0429195	-0.77	0.446	-.1181776	.0524009
w1Albumin	3.005376	1.766374	1.70	0.092	-.5028995	6.513652
w1EosinPct	.1177193	.2003027	0.59	0.558	-.2800979	.5155364
ICV_volM2	1.94e-06	4.01e-06	0.48	0.630	-6.03e-06	9.90e-06
_cons	-18.48264	10.75687	-1.72	0.089	-39.84693	2.881645

```
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     =        179
                                                  Average RVI       =     0.0232
                                                  Largest FMI       =     0.2160
                                                  Complete DF       =        166
    DF adjustment:   Small sample                 DF:     min       =      57.22
                                                          avg       =     154.75
                                                          max       =     163.99
    Model F test:       Equal FMI                 F(  12,  163.6)   =      11.67
    Within VCE type:          OLS                 Prob > F          =     0.0000

    ------------------------------------------------------------------------------
    Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    ---------------+--------------------------------------------------------------
           LnNFLw1 |  -63.94436   67.86558    -0.94   0.347    -197.9568    70.06811
                   |
              Race |
            AfrAm  |  -240.0652   180.7916    -1.33   0.186    -597.0561    116.9258
                   |
    Race#c.LnNFLw1 |
            AfrAm  |   78.95038   88.77252     0.89   0.375    -96.33412    254.2349
                   |
               Sex |  -44.78008   62.09262    -0.72   0.472    -167.3843    77.82417
             w1Age |  -5.794361   3.077511    -1.88   0.061    -11.87102    .2822948
              Race |          0  (omitted)
           PovStat |  -138.8538   52.69842    -2.63   0.009    -242.9109   -34.79674
       TIME_V1SCAN |   .0301085   .0389269     0.77   0.440    -.0467583    .1069752
             w1BMI |   4.152213   3.802676     1.09   0.276    -3.356361    11.66079
           w1TotalD |  -.0014127   2.840772    -0.00   1.000    -5.689487    5.686662
          w1Albumin |   138.8731   90.22485     1.54   0.126     -39.2808    317.027
         w1EosinPct |  -1.009412   11.64545    -0.09   0.931    -24.01342    21.9946
          ICV_volM2 |   .0016951    .000226     7.50   0.000     .0012489    .0021414
              _cons |   1176.235   561.9715     2.09   0.038     66.59724    2285.873
    ------------------------------------------------------------------------------

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     =        179
                                                  Average RVI       =     0.0105
                                                  Largest FMI       =     0.0768
                                                  Complete DF       =        166
    DF adjustment:   Small sample                 DF:     min       =     126.19
                                                          avg       =     159.94
                                                          max       =     164.03
    Model F test:       Equal FMI                 F(  12,  163.9)   =      13.61
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-42.83516	70.10333	-0.61	0.542	-181.2588	95.58851
Race						
AfrAm	-255.1394	187.2625	-1.36	0.175	-624.9083	114.6295
Race#c.LnNFLw1						
AfrAm	77.84163	92.01202	0.85	0.399	-103.8416	259.5249
Sex	-119.6609	64.31368	-1.86	0.065	-246.6508	7.32906
w1Age	-4.283771	3.18874	-1.34	0.181	-10.58009	2.01255
Race	0	(omitted)				
PovStat	-115.7683	54.55185	-2.12	0.035	-223.4842	-8.05249
TIME_V1SCAN	.0546878	.0402488	1.36	0.176	-.0247865	.1341622
w1BMI	3.817789	3.936946	0.97	0.334	-3.955861	11.59144
w1TotalD	-2.362422	2.735952	-0.86	0.390	-7.776713	3.051869
w1Albumin	91.23837	93.37984	0.98	0.330	-93.14314	275.6199
w1EosinPct	4.152563	12.10541	0.34	0.732	-19.76448	28.0696
ICV_volM2	.0021363	.0002341	9.13	0.000	.0016741	.0025985
_cons	1053.314	581.8594	1.81	0.072	-95.58785	2202.216

```
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	= 179
		Average RVI	= 0.0086
		Largest FMI	= 0.0961
		Complete DF	= 166
DF adjustment:	Small sample	DF: min	= 113.75
		avg	= 159.97
		max	= 164.00
Model F test:	Equal FMI	F(12, 164.0)	= 2.03
Within VCE type:	OLS	Prob > F	= 0.0244

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	2.707045	.8604773	3.15	0.002	1.007904	4.406186
Race						
AfrAm	2.147077	2.28957	0.94	0.350	-2.373764	6.667919
Race#c.LnNFLw1						
AfrAm	-.3454254	1.126332	-0.31	0.759	-2.569412	1.878561
Sex	.1265717	.787667	0.16	0.873	-1.428705	1.681848
w1Age	.0015522	.0390445	0.04	0.968	-.0755426	.078647
Race	0	(omitted)				
PovStat	.7657716	.6677929	1.15	0.253	-.5528115	2.084355
TIME_V1SCAN	-.0005875	.000493	-1.19	0.235	-.001561	.0003861
w1BMI	.0758676	.048227	1.57	0.118	-.0193586	.1710938
w1TotalD	-.0093309	.0338431	-0.28	0.783	-.0763755	.0577136
w1Albumin	1.109665	1.144352	0.97	0.334	-1.149911	3.369241
w1EosinPct	.1576671	.1457878	1.08	0.281	-.1301965	.4455307
ICV_volM2	2.26e-06	2.87e-06	0.79	0.432	-3.40e-06	7.91e-06
_cons	-10.81038	7.127169	-1.52	0.131	-24.88322	3.262464

```
. 
. 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     =         74
                                                Average RVI       =     0.0100
                                                Largest FMI       =     0.0345
                                                Complete DF       =         64
DF adjustment:   Small sample                   DF:     min       =      59.17
                                                        avg       =      61.50
                                                        max       =      62.04
Model F test:       Equal FMI                   F(   9,   62.0)   =       5.79
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw1 |  -15.31509   87.36124    -0.18   0.861    -189.9636    159.3334
         Sex |   39.19211    82.9113     0.47   0.638    -126.5429    204.9271
       w1Age |  -7.789998   4.798895    -1.62   0.110    -17.38401    1.804011
        Race |           0  (omitted)
     PovStat |  -237.6955   74.86483    -3.17   0.002    -387.3592   -88.03172
 TIME_V1SCAN |   .0297641   .0602608     0.49   0.623    -.0907194    .1502476
       w1BMI |  -4.497188    5.76386    -0.78   0.438    -16.01982    7.025442
 w1currdrugs |  -141.7197    72.0921    -1.97   0.054     -285.967    2.527545
       w1SRH |  -37.48104   40.82628    -0.92   0.362    -119.1024     44.1403
   ICV_volM2 |   .0014031   .0003453     4.06   0.000     .0007129    .0020934
       _cons |   2447.419   468.6346     5.22   0.000     1510.643    3384.195
------------------------------------------------------------------------------

. 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     =         74
                                                Average RVI       =     0.0091
                                                Largest FMI       =     0.0258
                                                Complete DF       =         64
DF adjustment:   Small sample                   DF:     min       =      60.09
                                                        avg       =      61.60
                                                        max       =      62.04
Model F test:       Equal FMI                   F(   9,   62.0)   =       6.19
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-13.24875	85.47654	-0.15	0.877	-184.1261	157.6286
Sex	16.66617	81.15826	0.21	0.838	-145.5646	178.897
w1Age	-7.2385	4.694677	-1.54	0.128	-16.62389	2.146892
Race	0	(omitted)				
PovStat	-209.7918	73.24659	-2.86	0.006	-356.2173	-63.36625
TIME_V1SCAN	.0509192	.0590211	0.86	0.392	-.0670895	.1689278
w1BMI	-6.767531	5.640195	-1.20	0.235	-18.04278	4.507718
w1currdrugs	-135.5759	70.26884	-1.93	0.058	-276.1304	4.978615
w1SRH	-19.26605	39.96927	-0.48	0.631	-99.17468	60.64258
ICV_volM2	.0015407	.0003379	4.56	0.000	.0008653	.0022162
_cons	2485.84	458.7059	5.42	0.000	1568.912	3402.768

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

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 74
Average RVI = 0.0025
Largest FMI = 0.0153
Complete DF = 64
DF adjustment: **Small sample** — DF: min = 61.05
avg = 61.95
max = 62.09
Model F test: **Equal FMI** — F(9, 62.1) = 2.27
Within VCE type: **OLS** — Prob > F = 0.0290

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	1.981343	.9996958	1.98	0.052	-.0169997	3.979685
Sex	.6243057	.9507441	0.66	0.514	-1.276155	2.524767
w1Age	.0027419	.0548717	0.05	0.960	-.106943	.1124269
Race	0	(omitted)				
PovStat	-.2295722	.8567047	-0.27	0.790	-1.942054	1.482909
TIME_V1SCAN	-.0008693	.0006887	-1.26	0.212	-.002246	.0005073
w1BMI	.1090704	.0659671	1.65	0.103	-.022793	.2409338
w1currdrugs	.5528994	.8192201	0.67	0.502	-1.085206	2.191004
w1SRH	-.6780199	.4669501	-1.45	0.152	-1.611442	.2554017
ICV_volM2	4.93e-06	3.95e-06	1.25	0.217	-2.97e-06	.0000128
_cons	-4.827109	5.373347	-0.90	0.372	-15.56799	5.913768

```
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 = 105
Average RVI = 0.0097
Largest FMI = 0.0620
Complete DF = 95
DF adjustment: Small sample — DF: min = 81.41
avg = 91.46
max = 92.91
Model F test: Equal FMI — F(9, 93.0) = 8.36
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-106.9989	78.23763	-1.37	0.175	-262.3876	48.38991
Sex	-70.1245	86.69938	-0.81	0.421	-242.2963	102.0472
w1Age	-1.953686	4.504681	-0.43	0.666	-10.89996	6.992585
Race	0	(omitted)				
PovStat	-58.47529	76.64378	-0.76	0.447	-210.6824	93.7318
TIME_V1SCAN	.0349178	.051812	0.67	0.502	-.0679879	.1378234
w1BMI	8.478271	4.972724	1.70	0.092	-1.396738	18.35328
w1currdrugs	89.2939	95.19371	0.94	0.351	-100.0972	278.685
w1SRH	-12.19537	43.84029	-0.28	0.781	-99.25454	74.8638
ICV_volM2	.0020004	.0003011	6.64	0.000	.0014024	.0025983
_cons	1074.381	481.7663	2.23	0.028	117.6734	2031.088

```
. 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 = 105
Average RVI = 0.0124
Largest FMI = 0.0977
Complete DF = 95
DF adjustment: Small sample — DF: min = 71.75
avg = 90.59
max = 92.98
Model F test: Equal FMI — F(9, 93.0) = 11.02
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-124.3378	80.01712	-1.55	0.124	-283.2509	34.57519
Sex	-202.5507	88.80883	-2.28	0.025	-378.9106	-26.19076
w1Age	2.205487	4.614349	0.48	0.634	-6.958538	11.36951
Race	0	(omitted)				
PovStat	-40.05518	78.49532	-0.51	0.611	-195.9376	115.8273
TIME_V1SCAN	.0923899	.0529605	1.74	0.084	-.012788	.1975678
w1BMI	10.75805	5.09725	2.11	0.038	.6355997	20.88051
w1currdrugs	53.19163	99.27556	0.54	0.594	-144.7222	251.1055
w1SRH	-37.37031	44.90583	-0.83	0.407	-126.545	51.80438
ICV_volM2	.0026317	.0003084	8.53	0.000	.0020194	.0032441
_cons	396.6329	493.9664	0.80	0.424	-584.3255	1377.591

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

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        105
                                                Average RVI       =     0.0043
                                                Largest FMI       =     0.0117
                                                Complete DF       =         95
DF adjustment:   Small sample                   DF:     min       =      91.78
                                                        avg       =      92.72
                                                        max       =      93.04
Model F test:       Equal FMI                   F(   9,   93.0)   =       1.44
Within VCE type:          OLS                   Prob > F          =     0.1807

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw1 |   2.852127   1.050486     2.72   0.008     .7659285    4.938326
          Sex |  -.1239777   1.167011    -0.11   0.916    -2.441487    2.193532
        w1Age |  -.0222866   .0604609    -0.37   0.713     -.142351    .0977778
         Race |           0  (omitted)
      PovStat |   1.584345   1.030042     1.54   0.127    -.4611244    3.629815
  TIME_V1SCAN |  -.0005462   .0006964    -0.78   0.435    -.0019293    .0008368
        w1BMI |   .0238439   .0668757     0.36   0.722    -.1089571    .1566448
  w1currdrugs |  -1.380175   1.249801    -1.10   0.272    -3.862468    1.102117
        w1SRH |   .0958102   .5899314     0.16   0.871    -1.075683    1.267303
    ICV_volM2 |   1.34e-06   4.05e-06     0.33   0.742    -6.71e-06    9.39e-06
        _cons |   -2.85864   6.481316    -0.44   0.660    -15.72928      10.012
------------------------------------------------------------------------------

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     =        179
                                                Average RVI       =     0.0045
                                                Largest FMI       =     0.0450
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     146.93
                                                        avg       =     163.43
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =      12.78
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-83.03118	66.96676	-1.24	0.217	-215.2535	49.19116
Race						
AfrAm	-261.5352	179.3482	-1.46	0.147	-615.6493	92.57902
Race#c.LnNFLw1						
AfrAm	88.81644	89.10396	1.00	0.320	-87.11592	264.7488
Sex	-30.65727	60.84957	-0.50	0.615	-150.8016	89.48707
w1Age	-5.796823	3.147892	-1.84	0.067	-12.01218	.4185357
Race	0	(omitted)				
PovStat	-146.5396	53.41842	-2.74	0.007	-252.0113	-41.06794
TIME_V1SCAN	.0257932	.0383648	0.67	0.502	-.0499563	.1015427
w1BMI	2.143864	3.653787	0.59	0.558	-5.070395	9.358124
w1currdrugs	-34.36175	59.21689	-0.58	0.563	-151.3886	82.6651
w1SRH	-25.11726	30.02815	-0.84	0.404	-84.40636	34.17184
ICV_volM2	.0017059	.0002269	7.52	0.000	.0012579	.002154
_cons	1920.897	340.3473	5.64	0.000	1248.893	2592.901

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 = 179
Average RVI = 0.0066
Largest FMI = 0.0627
Complete DF = 167
DF adjustment: Small sample — DF: min = 135.98
avg = 162.46
max = 165.03
Model F test: Equal FMI — F(11, 165.0) = 15.00
Within VCE type: OLS — Prob > F = 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	-72.40033	69.06164	-1.05	0.296	-208.7593	63.95867
Race						
AfrAm	-257.7413	184.9505	-1.39	0.165	-622.9179	107.4352
Race#c.LnNFLw1						
AfrAm	88.88633	91.90159	0.97	0.335	-92.57081	270.3435
Sex	-107.9627	62.7557	-1.72	0.087	-231.871	15.9457
w1Age	-4.198031	3.245489	-1.29	0.198	-10.60608	2.21002
Race	0	(omitted)				
PovStat	-122.7337	55.07723	-2.23	0.027	-231.4806	-13.98677
TIME_V1SCAN	.0612293	.0395755	1.55	0.124	-.0169112	.1393699
w1BMI	2.369787	3.767655	0.63	0.530	-5.069313	9.808886
w1currdrugs	-49.58124	61.59922	-0.80	0.422	-171.3976	72.23509
w1SRH	-31.82383	30.97216	-1.03	0.306	-92.97718	29.32951
ICV_volM2	.0021415	.000234	9.15	0.000	.0016795	.0026035
_cons	1550.74	350.9739	4.42	0.000	857.752	2243.727

```
. 
. //ANALYSIS C//
. 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     =        179
                                                Average RVI       =     0.0005
                                                Largest FMI       =     0.0058
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     163.92
                                                        avg       =     164.93
                                                        max       =     165.04
Model F test:       Equal FMI                   F(  11,  165.0)   =       2.07
Within VCE type:          OLS                   Prob > F          =     0.0254

------------------------------------------------------------------------------
LnLesion_Vol~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw1 |   2.419459   .8500167     2.85   0.005     .7411497    4.097769
               |
          Race |
         AfrAm |   1.951141   2.276281     0.86   0.393    -2.543246    6.445528
               |
Race#c.LnNFLw1 |
         AfrAm |  -.2948566   1.130543    -0.26   0.795    -2.527051    1.937338
               |
           Sex |   .3540274   .7723401     0.46   0.647    -1.170914    1.878969
         w1Age |   .0045053    .039953     0.11   0.910    -.0743797    .0833904
          Race |          0  (omitted)
       PovStat |   .7452925   .6781116     1.10   0.273    -.5936002    2.084185
   TIME_V1SCAN |  -.0006145   .0004869    -1.26   0.209    -.0015759    .0003468
         w1BMI |   .0563146   .0463596     1.21   0.226    -.0352199    .1478492
   w1currdrugs |   -.121404   .7372964    -0.16   0.869    -1.577227    1.334419
        w1SRH |  -.2300037   .3811103    -0.60   0.547    -.9824843    .5224769
     ICV_volM2 |   2.24e-06   2.88e-06     0.78   0.438    -3.45e-06    7.93e-06
         _cons |   -4.41411   4.317815    -1.02   0.308     -12.9394    4.111178
------------------------------------------------------------------------------

. 
. save, replace
file finaldata_imputed.dta saved

. 
. 
. ////////////////////////////////////////TABLE S5. LnNFLw3 exposure////////////////////////////////////////////
> 
. 
. 
. 
. **********************LnNFLw3, MODELS 1 AND 2*********************
. 
. 
. ********************AFRICAN-AMERICAN************************************************************
```

```
. 
. **Model 1**
. 
. use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

. 
. //ANALYSIS B//
. reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	3370999.52	6	561833.254	Number of obs	= 74
Residual	4368517.34	67	65201.7514	F(6, 67)	= 8.62
				Prob > F	= 0.0000
Total	7739516.87	73	106020.779	R-squared	= 0.4356
				Adj R-squared	= 0.3850
				Root MSE	= 255.35

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-95.04325	53.00145	-1.79	0.077	-.1888127
Sex	64.41694	80.73391	0.80	0.428	.0992651
w1Age	-5.588908	3.746774	-1.49	0.140	-.1676833
Race	0	(omitted)			.
PovStat	-203.3794	74.02801	-2.75	0.008	-.3070007
TIME_V1SCAN	.0193721	.0586691	0.33	0.742	.034229
ICV_volM2	.0012446	.0003284	3.79	0.000	.4656064
_cons	2404.049	431.9859	5.57	0.000	.

```
. reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS		
Model	3357210.42	6	559535.071	Number of obs	= 74
Residual	4287978.56	67	63999.68	F(6, 67)	= 8.74
				Prob > F	= 0.0000
Total	7645188.98	73	104728.616	R-squared	= 0.4391
				Adj R-squared	= 0.3889
				Root MSE	= 252.98

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-67.49723	52.5106	-1.29	0.203	-.1349145
Sex	44.07066	79.98624	0.55	0.583	.0683296
w1Age	-6.181877	3.712075	-1.67	0.101	-.1866148
Race	0	(omitted)			.
PovStat	-186.0157	73.34244	-2.54	0.014	-.2825172
TIME_V1SCAN	.0403946	.0581258	0.69	0.489	.0718131
ICV_volM2	.0014009	.0003253	4.31	0.000	.5273009
_cons	2404.047	427.9853	5.62	0.000	.

```
. 
. //ANALYSIS C//
. reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final==1 & Race==2,beta
note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	74
				F(6, 67)	=	1.79
Model	101.670577	6	16.9450962	Prob > F	=	0.1146
Residual	634.469831	67	9.46969898	R-squared	=	0.1381
				Adj R-squared	=	0.0609
Total	736.140409	73	10.0841152	Root MSE	=	3.0773

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	.2014758	.6387431	0.32	0.753	.0410402
Sex	.6784156	.9729588	0.70	0.488	.1071937
w1Age	.0734892	.045154	1.63	0.108	.2260805
Race	0	(omitted)			.
PovStat	-.0399791	.8921431	-0.04	0.964	-.0061879
TIME_V1SCAN	-.0009704	.000707	-1.37	0.175	-.1758035
ICV_volM2	2.89e-06	3.96e-06	0.73	0.468	.1108274
_cons	-.4563551	5.206047	-0.09	0.930	.

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

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

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 74
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 66
DF adjustment: Small sample		DF: min	= 64.09
		avg	= 64.09
		max	= 64.09
Model F test: Equal FMI		F(7, 64.1)	= 7.48
Within VCE type: OLS		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-103.2193	53.83238	-1.92	0.060	-210.759	4.320459
Sex	49.6563	82.46382	0.60	0.549	-115.0798	214.3924
w1Age	-4.609311	3.904193	-1.18	0.242	-12.40863	3.190006
Race	0	(omitted)				
PovStat	-197.0987	74.4493	-2.65	0.010	-345.8244	-48.37304
TIME_V1SCAN	.0203927	.0587579	0.35	0.730	-.0969866	.137772
w1BMI	-4.503239	4.966207	-0.91	0.368	-14.42412	5.41764
ICV_volM2	.0012933	.0003332	3.88	0.000	.0006277	.0019588
_cons	2456.165	436.3617	5.63	0.000	1584.455	3327.875

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

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         74
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         66
DF adjustment:   Small sample                   DF:     min       =      64.09
                                                        avg       =      64.09
                                                        max       =      64.09
Model F test:       Equal FMI                   F(   7,   64.1)   =       7.78
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw3 |  -78.66373   53.03388    -1.48   0.143    -184.6083    27.28086
         Sex |   23.91114   81.24063     0.29   0.769    -138.3814    186.2037
       w1Age |  -4.843982   3.846282    -1.26   0.212    -12.52761    2.839648
        Race |          0  (omitted)
     PovStat |  -177.4378   73.34499    -2.42   0.018    -323.9575   -30.91817
 TIME_V1SCAN |   .0417884   .0578863     0.72   0.473    -.0738498    .1574267
       w1BMI |   -6.15035   4.892543    -1.26   0.213    -15.92407    3.623373
   ICV_volM2 |   .0014673   .0003282     4.47   0.000     .0008117     .002123
       _cons |   2475.225   429.8892     5.76   0.000     1616.445    3334.005
------------------------------------------------------------------------------

319 .
320 . //ANALYSIS C//
321 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final==1 & R

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =         74
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         66
DF adjustment:   Small sample                   DF:     min       =      64.09
                                                        avg       =      64.09
                                                        max       =      64.09
Model F test:       Equal FMI                   F(   7,   64.1)   =       1.53
Within VCE type:          OLS                   Prob > F          =     0.1723

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw3 |   .2412234   .6521318     0.37   0.713    -1.061526    1.543972
         Sex |    .750174   .9989764     0.75   0.455    -1.245459    2.745807
       w1Age |   .0687269   .0472958     1.45   0.151    -.0257549    .1632088
        Race |          0  (omitted)
     PovStat |  -.0705122   .9018876    -0.08   0.938    -1.872193    1.731168
 TIME_V1SCAN |  -.0009753   .0007118    -1.37   0.175    -.0023973    .0004466
       w1BMI |   .0218924   .0601612     0.36   0.717    -.0982903    .1420751
   ICV_volM2 |   2.65e-06   4.04e-06     0.66   0.513    -5.41e-06    .0000107
       _cons |   -.709717   5.286137    -0.13   0.894    -11.26971     9.85028
------------------------------------------------------------------------------
```

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

. 
. 
. 
. 
. 
. ********************WHITE*******************************************************
. 
. **Model 1**
. 
. use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

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

      Source |       SS           df       MS      Number of obs   =       105
-------------+----------------------------------   F(6, 98)        =     13.17
       Model |  7328943.16         6  1221490.53   Prob > F        =    0.0000
    Residual |  9088523.76        98  92740.0384   R-squared       =    0.4464
-------------+----------------------------------   Adj R-squared   =    0.4125
       Total |  16417466.9       104  157860.259   Root MSE        =    304.53

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw3 |  -164.9185   66.96786    -2.46   0.016               -.2105624
         Sex |  -90.09159   83.13769    -1.08   0.281               -.1130424
       w1Age |  -2.150193   4.006875    -0.54   0.593               -.0455878
        Race |           0  (omitted)                                       .
     PovStat |  -62.82257   72.22915    -0.87   0.387                -.069438
 TIME_V1SCAN |   .0313661   .0480798     0.65   0.516                .0515634
   ICV_volM2 |   .0019895   .0002924     6.81   0.000                .7192659
       _cons |    1528.69   415.8821     3.68   0.000                       .
------------------------------------------------------------------------------

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

      Source |       SS           df       MS      Number of obs   =       105
-------------+----------------------------------   F(6, 98)        =     16.19
       Model |  9806726.29         6  1634454.38   Prob > F        =    0.0000
    Residual |  9892901.06        98   100947.97   R-squared       =    0.4978
-------------+----------------------------------   Adj R-squared   =    0.4671
       Total |  19699627.3       104  189419.494   Root MSE        =    317.72

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|                     Beta
-------------+----------------------------------------------------------------
     LnNFLw3 |  -153.0387   69.86852    -2.19   0.031               -.1783762
         Sex |  -216.5521   86.73875    -2.50   0.014               -.2480525
       w1Age |    .987417   4.18043     0.24   0.814                .0191115
        Race |           0  (omitted)                                       .
     PovStat |  -27.91078    75.3577    -0.37   0.712               -.0281629
 TIME_V1SCAN |   .0728169   .0501623     1.45   0.150                .1092793
   ICV_volM2 |   .0025926    .000305     8.50   0.000                .8556562
       _cons |   882.5354   433.8957     2.03   0.045                       .
------------------------------------------------------------------------------
```

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

Source	SS	df	MS	Number of obs	=	105
				F(6, 98)	=	0.85
Model	93.2021497	6	15.5336916	Prob > F	=	0.5330
Residual	1786.38671	98	18.2284358	R-squared	=	0.0496
				Adj R-squared	=	-0.0086
Total	1879.58886	104	18.0729698	Root MSE	=	4.2695

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	.8303881	.9388743	0.88	0.379	.0990865
Sex	-.1243748	1.165572	-0.11	0.915	-.0145852
w1Age	.0504122	.0561755	0.90	0.372	.0998915
Race	0	(omitted)			.
PovStat	1.548068	1.012636	1.53	0.130	.1599165
TIME_V1SCAN	-.0004339	.0006741	-0.64	0.521	-.0666691
ICV_volM2	2.69e-06	4.10e-06	0.66	0.512	.0910431
_cons	-3.601003	5.830574	-0.62	0.538	.

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

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

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 105
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 97
DF adjustment: Small sample — DF: min = 95.06
avg = 95.06
max = 95.06
Model F test: Equal FMI — F(7, 95.1) = 11.83
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-158.1779	66.5747	-2.38	0.020	-290.3443	-26.0115
Sex	-79.07338	82.77094	-0.96	0.342	-243.3931	85.24637
w1Age	-1.665112	3.986912	-0.42	0.677	-9.580068	6.249844
Race	0	(omitted)				
PovStat	-64.55286	71.66933	-0.90	0.370	-206.8333	77.72758
TIME_V1SCAN	.0427804	.0482323	0.89	0.377	-.052972	.1385328
w1BMI	7.586	4.741588	1.60	0.113	-1.827165	16.99916
ICV_volM2	.0019965	.0002901	6.88	0.000	.0014206	.0025724
_cons	1222.01	454.965	2.69	0.009	318.7978	2125.222

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

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        105
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         97
DF adjustment:   Small sample                   DF:     min       =      95.06
                                                        avg       =      95.06
                                                        max       =      95.06
Model F test:       Equal FMI                   F(   7,   95.1)   =      15.08
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hipp~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |  -143.5879   68.71574    -2.09   0.039    -280.0048   -7.171013
          Sex |  -201.1037   85.43285    -2.35   0.021     -370.708   -31.49947
        w1Age |   1.667537   4.115131     0.41   0.686    -6.501964    9.837038
         Race |           0  (omitted)
      PovStat |  -30.33679   73.97421    -0.41   0.683     -177.193    116.5194
  TIME_V1SCAN |   .0888207   .0497834     1.78   0.078    -.0100111    .1876525
        w1BMI |   10.63615   4.894077     2.17   0.032     .9202616    20.35205
    ICV_volM2 |   .0026024   .0002994     8.69   0.000      .002008    .0031968
        _cons |   452.5459   469.5966     0.96   0.338    -479.7136    1384.805
------------------------------------------------------------------------------

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

Multiple-imputation estimates                   Imputations       =          5
Linear regression                               Number of obs     =        105
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         97
DF adjustment:   Small sample                   DF:     min       =      95.06
                                                        avg       =      95.06
                                                        max       =      95.06
Model F test:       Equal FMI                   F(   7,   95.1)   =       0.74
Within VCE type:          OLS                   Prob > F          =     0.6354

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .8527135   .9449183     0.90   0.369    -1.023171    2.728598
          Sex |  -.0878816   1.174797    -0.07   0.941     -2.42013    2.244367
        w1Age |   .0520188   .0565877     0.92   0.360     -.060321    .1643586
         Race |           0  (omitted)
      PovStat |   1.542337   1.017228     1.52   0.133    -.4770993    3.561774
  TIME_V1SCAN |  -.0003961   .0006846    -0.58   0.564    -.0017552    .0009629
        w1BMI |   .0251254    .067299     0.37   0.710    -.1084789    .1587298
    ICV_volM2 |   2.72e-06   4.12e-06     0.66   0.511    -5.46e-06    .0000109
        _cons |  -4.616753   6.457479    -0.71   0.476    -17.43637    8.202859
------------------------------------------------------------------------------
```

```
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 if sample_fi

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        179
                                                  Average RVI       =     0.0000
                                                  Largest FMI       =     0.0000
                                                  Complete DF       =        169
    DF adjustment:   Small sample                 DF:     min       =     167.03
                                                          avg       =     167.03
                                                          max       =     167.03
    Model F test:       Equal FMI                 F(   9,  167.0)   =      17.13
    Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -153.3897   59.75841    -2.57   0.011    -271.3688   -35.41059
               |
          Race |
        AfrAm  |  -230.8496   173.7777    -1.33   0.186    -573.9334    112.2342
               |
Race#c.LnNFLw3 |
        AfrAm  |   57.24367   76.59076     0.75   0.456    -93.96701    208.4543
               |
           Sex |  -14.13137   59.37244    -0.24   0.812    -131.3485    103.0857
         w1Age |   -3.51857   2.759392    -1.28   0.204    -8.966349     1.92921
          Race |          0  (omitted)
       PovStat |  -131.1826   51.30034    -2.56   0.011    -232.4632   -29.90202
   TIME_V1SCAN |   .0248345   .0369487     0.67   0.502    -.0481121    .0977812
         w1BMI |   1.782435    3.41784     0.52   0.603    -4.965296    8.530166
      ICV_volM2 |   .0016731   .0002182     7.67   0.000     .0012423    .0021039
          _cons |   1941.581   330.5868     5.87   0.000     1288.914    2594.247
------------------------------------------------------------------------------

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

    Multiple-imputation estimates                 Imputations       =          5
    Linear regression                             Number of obs     =        179
                                                  Average RVI       =     0.0000
                                                  Largest FMI       =     0.0000
                                                  Complete DF       =        169
    DF adjustment:   Small sample                 DF:     min       =     167.03
                                                          avg       =     167.03
                                                          max       =     167.03
    Model F test:       Equal FMI                 F(   9,  167.0)   =      19.18
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-125.2927	62.30239	-2.01	0.046	-248.2943	-2.291108
Race						
AfrAm	-214.9737	181.1756	-1.19	0.237	-572.6629	142.7156
Race#c.LnNFLw3						
AfrAm	51.76928	79.85131	0.65	0.518	-105.8786	209.4172
Sex	-92.49017	61.89999	-1.49	0.137	-214.6973	29.71699
w1Age	-2.249194	2.876863	-0.78	0.435	-7.928892	3.430503
Race	0	(omitted)				
PovStat	-105.6278	53.48425	-1.97	0.050	-211.2201	-.035603
TIME_V1SCAN	.056976	.0385217	1.48	0.141	-.0190761	.1330281
w1BMI	2.203241	3.563341	0.62	0.537	-4.831749	9.23823
ICV_volM2	.0021006	.0002275	9.23	0.000	.0016514	.0025497
_cons	1539.024	344.6603	4.47	0.000	858.5719	2219.475

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

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 179
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 169
DF adjustment: Small sample — DF: min = 167.03
avg = 167.03
max = 167.03
Model F test: Equal FMI — F(9, 167.0) = 1.20
Within VCE type: OLS — Prob > F = 0.2992

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.69982	.7978909	0.88	0.382	-.8754303	2.27507
Race						
AfrAm	1.844749	2.32027	0.80	0.428	-2.736086	6.425584
Race#c.LnNFLw3						
AfrAm	-.3740454	1.022635	-0.37	0.715	-2.393002	1.644911
Sex	.3712739	.7927374	0.47	0.640	-1.193802	1.93635
w1Age	.0629548	.0368432	1.71	0.089	-.0097836	.1356933
Race	0	(omitted)				
PovStat	.7389948	.6849592	1.08	0.282	-.6132981	2.091288
TIME_V1SCAN	-.0006244	.0004933	-1.27	0.207	-.0015983	.0003496
w1BMI	.0220064	.0456348	0.48	0.630	-.068089	.1121017
ICV_volM2	2.09e-06	2.91e-06	0.72	0.475	-3.67e-06	7.84e-06
_cons	-3.06025	4.413977	-0.69	0.489	-11.77462	5.654122

```
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     =         74
                                                    Average RVI       =     0.0175
                                                    Largest FMI       =     0.1365
                                                    Complete DF       =         64
    DF adjustment:   Small sample                   DF:     min       =      44.71
                                                            avg       =      59.07
                                                            max       =      62.07
    Model F test:       Equal FMI                   F(   9,   62.0)   =       7.18
    Within VCE type:          OLS                   Prob > F          =     0.0000

    ------------------------------------------------------------------------------
    Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
    -------------+----------------------------------------------------------------
        LnNFLw3 |  -136.5533    54.2624    -2.52   0.015    -245.1166   -27.98991
            Sex |   52.71921   79.98497     0.66   0.512    -107.2539    212.6923
          w1Age |  -2.289712   3.894999    -0.59   0.559    -10.07832    5.498899
           Race |           0  (omitted)
        PovStat |  -193.2008   71.08337    -2.72   0.009    -335.2911   -51.11051
     TIME_V1SCAN |   .0083681   .0563728     0.15   0.882    -.1043208     .121057
          w1BMI |  -5.855158    4.79046    -1.22   0.226    -15.43155    3.721236
    w1dxDiabetes |  -107.1846   59.92643    -1.79   0.080    -227.9044    13.53532
       w1Glucose |   4.819073   1.714063     2.81   0.007     1.387049    8.251097
       ICV_volM2 |   .0011268   .0003273     3.44   0.001     .0004722    .0017814
           _cons |   2264.604   422.6112     5.36   0.000     1419.813    3109.396
    ------------------------------------------------------------------------------

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     =         74
                                                    Average RVI       =     0.0043
                                                    Largest FMI       =     0.0283
                                                    Complete DF       =         64
    DF adjustment:   Small sample                   DF:     min       =      59.83
                                                            avg       =      61.54
                                                            max       =      62.07
    Model F test:       Equal FMI                   F(   9,   62.1)   =       8.90
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-107.1643	50.62808	-2.12	0.038	-208.3882	-5.940476
Sex	17.4689	74.96176	0.23	0.817	-132.4053	167.3431
w1Age	-2.841612	3.654223	-0.78	0.440	-10.14691	4.46369
Race	0	(omitted)				
PovStat	-174.1491	67.01158	-2.60	0.012	-308.1002	-40.19797
TIME_V1SCAN	.0312296	.0531119	0.59	0.559	-.074938	.1373972
w1BMI	-8.29726	4.512695	-1.84	0.071	-17.3181	.7235758
w1dxDiabetes	-78.22302	53.52285	-1.46	0.149	-185.291	28.84494
w1Glucose	5.899523	1.584174	3.72	0.000	2.732238	9.066808
ICV_volM2	.0012889	.0003063	4.21	0.000	.0006765	.0019012
_cons	2224.824	398.3501	5.59	0.000	1428.534	3021.115

```
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 = 74
Average RVI = 0.0006
Largest FMI = 0.0050
Complete DF = 64
DF adjustment: **Small sample** — DF: min = 61.83
avg = 62.04
max = 62.09
Model F test: **Equal FMI** — F(9, 62.1) = 1.23
Within VCE type: **OLS** — Prob > F = 0.2953

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.1645616	.6862379	0.24	0.811	-1.207188	1.536311
Sex	.8235185	1.016251	0.81	0.421	-1.207909	2.854946
w1Age	.0740639	.0496334	1.49	0.141	-.0251496	.1732774
Race	0	(omitted)				
PovStat	-.0601447	.9122892	-0.07	0.948	-1.883734	1.763444
TIME_V1SCAN	-.0010018	.0007229	-1.39	0.171	-.0024469	.0004433
w1BMI	.0263103	.0613905	0.43	0.670	-.0964043	.149025
w1dxDiabetes	-.3600017	.7204704	-0.50	0.619	-1.800282	1.080279
w1Glucose	-.0026559	.0214826	-0.12	0.902	-.0455988	.040287
ICV_volM2	2.57e-06	4.15e-06	0.62	0.539	-5.74e-06	.0000109
_cons	-.496273	5.420498	-0.09	0.927	-11.33143	10.33888

```
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	= 105
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 95
DF adjustment: Small sample		DF: min	= 93.06
		avg	= 93.06
		max	= 93.06
Model F test: Equal FMI		F(9, 93.1)	= 9.22
Within VCE type: OLS		Prob > F	= 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-177.9378	70.82888	-2.51	0.014	-318.5887	-37.28693
Sex	-90.912	84.0197	-1.08	0.282	-257.757	75.93303
w1Age	-1.97255	4.048718	-0.49	0.627	-10.01243	6.067331
Race	0	(omitted)				
PovStat	-72.13965	72.50345	-0.99	0.322	-216.1159	71.83658
TIME_V1SCAN	.0516468	.04943	1.04	0.299	-.0465105	.1498042
w1BMI	6.232632	4.960293	1.26	0.212	-3.617442	16.0827
w1dxDiabetes	25.00529	66.41294	0.38	0.707	-106.8765	156.8871
w1Glucose	.6268315	1.423798	0.44	0.661	-2.200525	3.454188
ICV_volM2	.0019918	.000294	6.78	0.000	.001408	.0025756
_cons	1264.038	485.3673	2.60	0.011	300.2032	2227.873

```
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	= 105
		Average RVI	= 0.0000
		Largest FMI	= 0.0000
		Complete DF	= 95
DF adjustment: Small sample		DF: min	= 93.06
		avg	= 93.06
		max	= 93.06
Model F test: Equal FMI		F(9, 93.1)	= 11.70
Within VCE type: OLS		Prob > F	= 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-166.1073	73.14011	-2.27	0.025	-311.3478	-20.86684
Sex	-212.313	86.76137	-2.45	0.016	-384.6024	-40.02359
w1Age	1.543762	4.180832	0.37	0.713	-6.75847	9.845993
Race	0	(omitted)				
PovStat	-36.29912	74.86932	-0.48	0.629	-184.9735	112.3752
TIME_V1SCAN	.0957578	.051043	1.88	0.064	-.0056025	.1971181
w1BMI	9.475766	5.122153	1.85	0.067	-.6957266	19.64726
w1dxDiabetes	2.890782	68.58007	0.04	0.966	-133.2945	139.076
w1Glucose	1.007495	1.470258	0.69	0.495	-1.912122	3.927111
ICV_volM2	.0026103	.0003036	8.60	0.000	.0020075	.0032132
_cons	439.6294	501.2054	0.88	0.383	-555.6566	1434.915

```
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     =        105
                                                Average RVI       =     0.0000
                                                Largest FMI       =     0.0000
                                                Complete DF       =         95
DF adjustment:   Small sample                   DF:     min       =      93.06
                                                        avg       =      93.06
                                                        max       =      93.06
Model F test:       Equal FMI                   F(   9,   93.1)   =       0.58
Within VCE type:          OLS                   Prob > F          =     0.8072

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .8885111   1.009881     0.88   0.381    -1.116895    2.893917
          Sex |  -.041536   1.197956    -0.03   0.972    -2.420419    2.337347
        w1Age |   .0550474   .0577268     0.95   0.343    -.0595855    .1696804
         Race |          0  (omitted)
      PovStat |   1.585358   1.033757     1.53   0.129    -.4674616    3.638177
  TIME_V1SCAN |  -.0004467   .0007048    -0.63   0.528    -.0018463    .0009528
        w1BMI |   .0317438   .0707241     0.45   0.655     -.108699    .1721865
 w1dxDiabetes |  -.3246053   .9469185    -0.34   0.733    -2.204981    1.555771
    w1Glucose |   .0020617   .0203006     0.10   0.919    -.0382509    .0423742
    ICV_volM2 |   2.87e-06   4.19e-06     0.69   0.495    -5.45e-06    .0000112
        _cons |  -5.356224   6.920387    -0.77   0.441    -19.09862    8.386175
------------------------------------------------------------------------------

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     =        179
                                                Average RVI       =     0.0047
                                                Largest FMI       =     0.0508
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     143.47
                                                        avg       =     162.63
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =      14.44
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-189.3137	62.26003	-3.04	0.003	-312.2428	-66.38451
Race						
AfrAm	-289.745	176.6008	-1.64	0.103	-638.4346	58.94455
Race#c.LnNFLw3						
AfrAm	87.43318	78.16098	1.12	0.265	-66.89166	241.758
Sex	-25.47457	59.55569	-0.43	0.669	-143.0644	92.11528
w1Age	-3.27839	2.802109	-1.17	0.244	-8.811097	2.254318
Race	0	(omitted)				
PovStat	-137.0769	51.15739	-2.68	0.008	-238.0842	-36.06954
TIME_V1SCAN	.0304169	.0371562	0.82	0.414	-.0429462	.1037799
w1BMI	.5831693	3.486226	0.17	0.867	-6.30022	7.466558
w1dxDiabetes	-18.31765	45.16571	-0.41	0.686	-107.5939	70.95857
w1Glucose	1.852894	1.082548	1.71	0.089	-.2851155	3.990904
ICV_volM2	.0016737	.0002171	7.71	0.000	.001245	.0021023
_cons	1877.693	339.1008	5.54	0.000	1208.145	2547.241

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 = 179
Average RVI = 0.0004
Largest FMI = 0.0044
Complete DF = 167
DF adjustment: Small sample — DF: min = 164.22
avg = 164.93
max = 165.04
Model F test: Equal FMI — F(11, 165.0) = 16.60
Within VCE type: OLS — Prob > F = 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-171.212	64.49289	-2.65	0.009	-298.5495	-43.87445
Race						
AfrAm	-298.1564	182.9173	-1.63	0.105	-659.3163	63.0034
Race#c.LnNFLw3						
AfrAm	93.63387	80.96184	1.16	0.249	-66.22068	253.4884
Sex	-108.9474	61.68393	-1.77	0.079	-230.7388	12.84406
w1Age	-2.133402	2.899994	-0.74	0.463	-7.859283	3.592479
Race	0	(omitted)				
PovStat	-113.9296	53.00012	-2.15	0.033	-218.5753	-9.283936
TIME_V1SCAN	.0658217	.038485	1.71	0.089	-.0101647	.1418082
w1BMI	.4886608	3.610711	0.14	0.893	-6.640483	7.617805
w1dxDiabetes	-8.110189	45.72895	-0.18	0.859	-98.40267	82.18229
w1Glucose	2.212498	1.111204	1.99	0.048	.0184604	4.406535
ICV_volM2	.0021008	.0002249	9.34	0.000	.0016567	.0025449
_cons	1483.006	350.9266	4.23	0.000	790.1203	2175.891

```
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     =        179
                                                Average RVI       =     0.0001
                                                Largest FMI       =     0.0010
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     164.89
                                                        avg       =     165.01
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =       1.02
Within VCE type:          OLS                   Prob > F          =     0.4323
```

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.7637657	.83932	0.91	0.364	-.8934234	2.420955
Race						
AfrAm	2.134036	2.38055	0.90	0.371	-2.566226	6.834298
Race#c.LnNFLw3						
AfrAm	-.5039657	1.053669	-0.48	0.633	-2.584375	1.576444
Sex	.4350274	.8028018	0.54	0.589	-1.15006	2.020115
w1Age	.0671681	.0377376	1.78	0.077	-.0073425	.1416788
Race	0	(omitted)				
PovStat	.7693619	.689766	1.12	0.266	-.5925417	2.131265
TIME_V1SCAN	-.0006762	.0005009	-1.35	0.179	-.0016651	.0003127
w1BMI	.0284649	.0469898	0.61	0.546	-.0643138	.1212436
w1dxDiabetes	-.3416657	.5941409	-0.58	0.566	-1.514771	.8314393
w1Glucose	.0005224	.0144524	0.04	0.971	-.0280131	.029058
ICV_volM2	2.11e-06	2.93e-06	0.72	0.472	-3.67e-06	7.89e-06
_cons	-3.581983	4.566893	-0.78	0.434	-12.59906	5.435092

```
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
    > 2
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 74
Average RVI = 0.1505
Largest FMI = 0.6858
Complete DF = 61
DF adjustment: **Small sample** — DF: min = 7.10
avg = 50.05
max = 58.55
Model F test: **Equal FMI** — F(11, 56.4) = 4.03
Within VCE type: **OLS** — Prob > F = 0.0002

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-115.9693	58.59667	-1.98	0.053	-233.24	1.301397
Sex	53.77598	117.9691	0.46	0.651	-185.2645	292.8165
w1Age	-5.040265	4.648016	-1.08	0.283	-14.35779	4.277259
Race	0	(omitted)				
PovStat	-184.9634	78.43855	-2.36	0.022	-342.0656	-27.8612
TIME_V1SCAN	.0143906	.0634794	0.23	0.822	-.1129629	.1417441
w1BMI	-3.568123	6.024075	-0.59	0.556	-15.63836	8.502114
w1Creatinine	95.88111	244.3581	0.39	0.706	-480.2942	672.0564
w1USpecGrav	-5010.174	5116.935	-0.98	0.332	-15256.55	5236.204
w1BUN	3.433965	10.96329	0.31	0.755	-18.58168	25.4496
w1ALP	.6320617	1.68966	0.37	0.710	-2.751639	4.015763
w1UricAcid	-9.8262	29.04461	-0.34	0.737	-68.12239	48.46999
ICV_volM2	.0012943	.0003662	3.53	0.001	.0005607	.0020278
_cons	7450.365	5204.535	1.43	0.158	-2969.428	17870.16

429 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
> =2

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 74
Average RVI = 0.0585
Largest FMI = 0.4271
Complete DF = 61
DF adjustment: **Small sample** — DF: min = 15.83
avg = 53.97
max = 58.92
Model F test: **Equal FMI** — F(11, 58.5) = 4.76
Within VCE type: **OLS** — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-99.33911	57.19733	-1.74	0.088	-213.794	15.1158
Sex	-5.649608	108.961	-0.05	0.959	-224.2471	212.9479
w1Age	-6.088827	4.475284	-1.36	0.179	-15.0478	2.870146
Race	0	(omitted)				
PovStat	-178.9088	75.84853	-2.36	0.022	-330.7015	-27.11608
TIME_V1SCAN	.0525275	.0611601	0.86	0.394	-.0699775	.1750324
w1BMI	-8.326425	5.836258	-1.43	0.159	-20.01099	3.358141
w1Creatinine	90.42891	187.0555	0.48	0.635	-306.4622	487.32
w1USpecGrav	-52.51731	4997.798	-0.01	0.992	-10058.78	9953.744
w1BUN	13.68965	10.46063	1.31	0.196	-7.259683	34.63898
w1ALP	.4309292	1.641804	0.26	0.794	-2.855333	3.717192
w1UricAcid	-5.917094	27.89799	-0.21	0.833	-61.80027	49.96608
ICV_volM2	.0015714	.0003547	4.43	0.000	.0008614	.0022814
_cons	2332.396	5088.056	0.46	0.648	-7853.373	12518.17

```
430 .
431 . //ANALYSIS C//
432 . 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 = 74
Average RVI = 0.0147
Largest FMI = 0.1031
Complete DF = 61
DF adjustment: **Small sample** — DF: min = 47.65
avg = 57.63
max = 58.84
Model F test: **Equal FMI** — F(11, 59.0) = 1.29
Within VCE type: **OLS** — Prob > F = 0.2503

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.2593107	.701819	0.37	0.713	-1.145247	1.663868
Sex	.9462628	1.300039	0.73	0.470	-1.656034	3.54856
w1Age	.0804206	.0545217	1.48	0.146	-.0286967	.1895379
Race	0	(omitted)				
PovStat	.1292784	.9307684	0.14	0.890	-1.733713	1.99227
TIME_V1SCAN	-.0011728	.0007404	-1.58	0.119	-.0026548	.0003092
w1BMI	.04936	.0713297	0.69	0.492	-.093435	.192155
w1Creatinine	1.295571	1.894791	0.68	0.497	-2.514882	5.106025
w1USpecGrav	-80.31081	60.66289	-1.32	0.191	-201.7065	41.08485
w1BUN	.0775405	.1264851	0.61	0.542	-.1755764	.3306574
w1ALP	-.0076717	.019997	-0.38	0.703	-.047688	.0323446
w1UricAcid	-.4888664	.3368877	-1.45	0.152	-1.163077	.1853441
ICV_volM2	2.76e-06	4.33e-06	0.64	0.526	-5.90e-06	.0000114
_cons	80.65796	61.88089	1.30	0.198	-43.17658	204.4925

```
433 .
434 . save, replace
    file finaldata_imputed.dta saved

435 .
436 .
437 .
438 . //WHITES//
439 .
440 . use finaldata_imputed,clear

441 .
442 .
443 . //ANALYSIS B//
444 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
    > 1
```

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 105
Average RVI = 0.0248
Largest FMI = 0.1887
Complete DF = 92
DF adjustment: **Small sample** — DF: min = 47.78
avg = 81.36
max = 90.03
Model F test: **Equal FMI** — F(11, 89.8) = 7.64
Within VCE type: **OLS** — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-183.2738	71.01167	-2.58	0.011	-324.3545	-42.19314
Sex	-121.8029	105.0013	-1.16	0.249	-330.4942	86.88844
w1Age	-1.44628	4.084327	-0.35	0.724	-9.560469	6.667909
Race	0	(omitted)				
PovStat	-61.35343	72.90001	-0.84	0.402	-206.1865	83.47959
TIME_V1SCAN	.0423898	.0504247	0.84	0.403	-.0578083	.1425878
w1BMI	5.831192	5.293382	1.10	0.274	-4.685119	16.3475
w1Creatinine	-49.49741	210.2842	-0.24	0.815	-472.3515	373.3567
w1USpecGrav	-1043.626	6152.148	-0.17	0.866	-13335.18	11247.92
w1BUN	14.25207	9.177836	1.55	0.125	-4.021577	32.52572
w1ALP	-1.360897	1.509782	-0.90	0.370	-4.36038	1.638587
w1UricAcid	7.766023	26.84689	0.29	0.773	-45.57057	61.10261
ICV_volM2	.0021001	.0003074	6.83	0.000	.0014893	.0027109
_cons	2193.267	6153.67	0.36	0.723	-10100.68	14487.22

445 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
> =1

Multiple-imputation estimates		Imputations	= 5
Linear regression		Number of obs	= 105
		Average RVI	= 0.0293
		Largest FMI	= 0.2245
		Complete DF	= 92
DF adjustment:	Small sample	DF: min	= 40.94
		avg	= 80.45
		max	= 89.95
Model F test:	Equal FMI	F(11, 89.7)	= 9.53
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-179.926	73.6486	-2.44	0.017	-326.2607	-33.5913
Sex	-225.5421	108.9791	-2.07	0.041	-442.1859	-8.898241
w1Age	1.402984	4.225132	0.33	0.741	-6.991039	9.797007
Race	0	(omitted)				
PovStat	-27.41966	75.38608	-0.36	0.717	-177.1921	122.3528
TIME_V1SCAN	.0832346	.0522383	1.59	0.115	-.0205759	.1870451
w1BMI	9.700234	5.481409	1.77	0.080	-1.190108	20.59058
w1Creatinine	25.11687	221.6906	0.11	0.910	-422.6179	472.8516
w1USpecGrav	-505.014	6387.059	-0.08	0.937	-13274.04	12264.01
w1BUN	15.54302	9.439463	1.65	0.104	-3.241617	34.32766
w1ALP	-.0568524	1.564446	-0.04	0.971	-3.16515	3.051445
w1UricAcid	-7.670829	27.77624	-0.28	0.783	-62.85468	47.51302
ICV_volM2	.0026533	.0003178	8.35	0.000	.0020219	.0032846
_cons	857.4879	6391.134	0.13	0.894	-11919.81	13634.78

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	= 105
		Average RVI	= 0.0055
		Largest FMI	= 0.0552
		Complete DF	= 92
DF adjustment:	**Small sample**	DF: min	= 80.61
		avg	= 88.96
		max	= 90.03
Model F test:	**Equal FMI**	F(11, 90.0)	= 0.77
Within VCE type:	**OLS**	Prob > F	= 0.6691

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.6220908	1.011489	0.62	0.540	-1.387421	2.631602
Sex	-1.033748	1.483736	-0.70	0.488	-3.981593	1.914098
w1Age	.0542895	.0582348	0.93	0.354	-.0614044	.1699833
Race	0	(omitted)				
PovStat	1.32337	1.038125	1.27	0.206	-.7390484	3.385789
TIME_V1SCAN	-.0005576	.0007155	-0.78	0.438	-.0019792	.000864
w1BMI	-.0144721	.0754273	-0.19	0.848	-.1643212	.1353771
w1Creatinine	.2803667	2.800264	0.10	0.920	-5.291687	5.85242
w1USpecGrav	118.6752	83.06201	1.43	0.157	-46.37251	283.7229
w1BUN	.02638	.1270688	0.21	0.836	-.2260957	.2788556
w1ALP	-.0072628	.0215174	-0.34	0.737	-.0500114	.0354857
w1UricAcid	.2308601	.3828253	0.60	0.548	-.5297049	.9914251
ICV_volM2	3.30e-06	4.37e-06	0.75	0.452	-5.38e-06	.000012
_cons	-124.1783	83.13286	-1.49	0.139	-289.3687	41.01201

```
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	= 179
		Average RVI	= 0.0614
		Largest FMI	= 0.4950
		Complete DF	= 164
DF adjustment:	**Small sample**	DF: min	= 16.55
		avg	= 143.95
		max	= 161.96
Model F test:	**Equal FMI**	F(13, 159.4)	= 11.24
Within VCE type:	**OLS**	Prob > F	= 0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-174.3705	62.95387	-2.77	0.006	-298.7203	-50.02068
Race						
AfrAm	-226.9593	179.0605	-1.27	0.207	-580.6338	126.7152
Race#c.LnNFLw3						
AfrAm	66.3719	78.20796	0.85	0.397	-88.07877	220.8226
Sex	-36.61633	76.75469	-0.48	0.634	-188.5625	115.3299
w1Age	-4.175338	2.900759	-1.44	0.152	-9.90362	1.552943
Race	0	(omitted)				
PovStat	-127.1003	51.99055	-2.44	0.016	-229.7685	-24.43217
TIME_V1SCAN	.0229277	.037625	0.61	0.543	-.0513801	.0972354
w1BMI	.9251415	3.865173	0.24	0.811	-6.707556	8.557838
w1Creatinine	38.35774	154.2377	0.25	0.807	-287.7333	364.4488
w1USpecGrav	-2080.257	3887.671	-0.54	0.593	-9765.295	5604.781
w1BUN	9.900945	6.795449	1.46	0.147	-3.537771	23.33966
w1ALP	-.3066271	1.103187	-0.28	0.781	-2.485339	1.872085
w1UricAcid	-1.066364	19.20419	-0.06	0.956	-38.9907	36.85797
ICV_volM2	.0017241	.0002266	7.61	0.000	.0012765	.0021716
_cons	3977.295	3916.594	1.02	0.312	-3765.211	11719.8

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	= 179
		Average RVI	= 0.0237
		Largest FMI	= 0.2323
		Complete DF	= 164
DF adjustment:	Small sample	DF: min	= 52.13
		avg	= 151.29
		max	= 161.89
Model F test:	Equal FMI	F(13, 161.6)	= 13.40
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-161.1073	64.85378	-2.48	0.014	-289.1861	-33.02841
Race						
AfrAm	-225.4071	184.3274	-1.22	0.223	-589.4167	138.6026
Race#c.LnNFLw3						
AfrAm	69.60653	80.79618	0.86	0.390	-89.94563	229.1587
Sex	-111.0909	77.3961	-1.44	0.153	-263.9899	41.80809
w1Age	-2.85325	3.008672	-0.95	0.344	-8.794756	3.088256
Race	0	(omitted)				
PovStat	-102.4905	53.85006	-1.90	0.059	-208.8301	3.849146
TIME_V1SCAN	.0523913	.0389314	1.35	0.180	-.0244938	.1292764
w1BMI	1.372177	4.010081	0.34	0.733	-6.546872	9.291226
w1Creatinine	78.62751	134.2696	0.59	0.561	-190.7881	348.0432
w1USpecGrav	327.6576	4008.267	0.08	0.935	-7593.231	8248.546
w1BUN	12.99593	6.897575	1.88	0.061	-.6279784	26.61984
w1ALP	.3282369	1.142131	0.29	0.774	-1.927339	2.583813
w1UricAcid	-12.07779	19.87475	-0.61	0.544	-51.32548	27.16991
ICV_volM2	.002135	.0002349	9.09	0.000	.0016713	.0025988
_cons	1105.547	4036.323	0.27	0.785	-6870.83	9081.924

```
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	= **179**
		Average RVI	= **0.0044**
		Largest FMI	= **0.0522**
		Complete DF	= **164**
DF adjustment:	**Small sample**	DF: min	= **140.24**
		avg	= **160.32**
		max	= **161.99**
Model F test:	**Equal FMI**	F(**13**, **162.0**)	= **0.95**
Within VCE type:	**OLS**	Prob > F	= **0.5031**

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	**.4927124**	**.8374696**	**0.59**	**0.557**	**-1.16108**	**2.146505**
Race						
AfrAm	**1.618041**	**2.383049**	**0.68**	**0.498**	**-3.087826**	**6.323908**
Race#c.LnNFLw3						
AfrAm	**-.1966237**	**1.045773**	**-0.19**	**0.851**	**-2.261732**	**1.868485**
Sex	**.0403035**	**.9916896**	**0.04**	**0.968**	**-1.918085**	**1.998692**
w1Age	**.0631243**	**.0389275**	**1.62**	**0.107**	**-.0137476**	**.1399962**
Race	**0**	(omitted)				
PovStat	**.7185193**	**.697291**	**1.03**	**0.304**	**-.6584361**	**2.095475**
TIME_V1SCAN	**-.0006685**	**.0005026**	**-1.33**	**0.185**	**-.001661**	**.0003241**
w1BMI	**.00764**	**.0518691**	**0.15**	**0.883**	**-.0947874**	**.1100674**
w1Creatinine	**.5285514**	**1.583521**	**0.33**	**0.739**	**-2.602108**	**3.659211**
w1USpecGrav	**29.90748**	**50.98007**	**0.59**	**0.558**	**-70.76467**	**130.5796**
w1BUN	**.06956**	**.0886605**	**0.78**	**0.434**	**-.1055225**	**.2446425**
w1ALP	**-.0062523**	**.0147461**	**-0.42**	**0.672**	**-.0353721**	**.0228675**
w1UricAcid	**-.0308046**	**.2572787**	**-0.12**	**0.905**	**-.5388596**	**.4772504**
ICV_volM2	**2.44e-06**	**3.04e-06**	**0.80**	**0.424**	**-3.57e-06**	**8.44e-06**
_cons	**-33.39449**	**51.33492**	**-0.65**	**0.516**	**-134.7675**	**67.97849**

```
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 = 74
Average RVI = 0.0662
Largest FMI = 0.4399
Complete DF = 63
DF adjustment: Small sample — DF: min = 15.39
avg = 56.07
max = 60.98
Model F test: Equal FMI — F(10, 60.3) = 5.37
Within VCE type: OLS — Prob > F = 0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-115.6229	54.58097	-2.12	0.038	-224.8011	-6.444672
Sex	38.86292	83.33794	0.47	0.643	-127.7868	205.5126
w1Age	-3.77613	4.008641	-0.94	0.350	-11.79469	4.242432
Race	0	(omitted)				
PovStat	-196.898	74.71508	-2.64	0.011	-346.3317	-47.4643
TIME_V1SCAN	.0415256	.0623039	0.67	0.508	-.083204	.1662552
w1BMI	-2.562019	5.17898	-0.49	0.623	-12.9222	7.798165
w1TotalD	1.079754	5.830173	0.19	0.855	-11.31977	13.47928
w1Albumin	218.5903	117.4847	1.86	0.068	-16.34263	453.5233
w1EosinPct	.7925562	17.55167	0.05	0.964	-34.30441	35.88952
ICV_volM2	.0012853	.0003383	3.80	0.000	.0006085	.001962
_cons	1404.209	708.8406	1.98	0.052	-13.35392	2821.773

```
. 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 = 74
Average RVI = 0.0467
Largest FMI = 0.3499
Complete DF = 63
DF adjustment: Small sample — DF: min = 20.80
avg = 56.61
max = 60.98
Model F test: Equal FMI — F(10, 60.6) = 5.49
Within VCE type: OLS — Prob > F = 0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-83.96033	53.95406	-1.56	0.125	-191.8611	23.94045
Sex	8.4185	82.9323	0.10	0.919	-157.4415	174.2785
w1Age	-3.665944	3.98502	-0.92	0.361	-11.63812	4.306236
Race	0	(omitted)				
PovStat	-181.664	74.01332	-2.45	0.017	-329.6799	-33.6481
TIME_V1SCAN	.0484762	.0614295	0.79	0.433	-.0744398	.1713921
w1BMI	-5.185816	5.157262	-1.01	0.319	-15.50492	5.133287
w1TotalD	-2.287269	5.441936	-0.42	0.679	-13.61106	9.036519
w1Albumin	178.2903	116.7074	1.53	0.132	-55.09867	411.6792
w1EosinPct	.581556	17.41982	0.03	0.973	-34.25178	35.41489
ICV_volM2	.0015007	.0003366	4.46	0.000	.0008274	.002174
_cons	1639.635	703.0979	2.33	0.023	233.5942	3045.676

```
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     =         74
                                                Average RVI       =     0.0125
                                                Largest FMI       =     0.1005
                                                Complete DF       =         63
DF adjustment:   Small sample                   DF:     min       =      49.45
                                                        avg       =      59.82
                                                        max       =      61.04
Model F test:       Equal FMI                   F(  10,   61.0)   =       1.12
Within VCE type:          OLS                   Prob > F          =     0.3644

------------------------------------------------------------------------------
LnLesion_V~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
      LnNFLw3 |   .2318003   .6725017     0.34   0.732     -1.11294    1.576541
          Sex |   .8826603   1.033998     0.85   0.397    -1.185029    2.950349
        w1Age |   .0586685   .0495052     1.19   0.241    -.0403341    .1576711
         Race |           0  (omitted)
      PovStat |   .0106672   .9243334     0.01   0.991    -1.837793    1.859128
  TIME_V1SCAN |  -.0009395   .0007594    -1.24   0.221    -.0024581    .0005791
        w1BMI |   .0218817   .0638792     0.34   0.733    -.1058646     .149628
     w1TotalD |   .0383518   .0592803     0.65   0.521    -.0807489    .1574526
    w1Albumin |    -.95409   1.459153    -0.65   0.516    -3.872105    1.963925
   w1EosinPct |  -.0003477   .2177091    -0.00   0.999    -.4356849    .4349894
    ICV_volM2 |   2.16e-06   4.18e-06     0.52   0.607    -6.19e-06    .0000105
        _cons |   3.544946    8.77054     0.40   0.687    -13.99263    21.08252
------------------------------------------------------------------------------

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     =        105
                                                Average RVI       =     0.0089
                                                Largest FMI       =     0.0613
                                                Complete DF       =         94
DF adjustment:   Small sample                   DF:     min       =      80.77
                                                        avg       =      90.70
                                                        max       =      92.06
Model F test:       Equal FMI                   F(  10,   92.0)   =       8.17
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-158.2224	67.3464	-2.35	0.021	-291.9776	-24.46731
Sex	-102.0385	86.77435	-1.18	0.243	-274.3791	70.30214
w1Age	-1.229334	4.05135	-0.30	0.762	-9.275598	6.816929
Race	0	(omitted)				
PovStat	-66.21706	72.7621	-0.91	0.365	-210.7289	78.2948
TIME_V1SCAN	.0548885	.0502059	1.09	0.277	-.0448251	.154602
w1BMI	9.281601	5.092812	1.82	0.072	-.8332463	19.39645
w1TotalD	.3906547	3.109355	0.13	0.900	-5.796249	6.577559
w1Albumin	132.9192	127.2712	1.04	0.299	-119.8522	385.6905
w1EosinPct	-.1122544	14.9252	-0.01	0.994	-29.76895	29.54444
ICV_volM2	.0020189	.0002941	6.87	0.000	.0014349	.002603
_cons	543.0906	786.4413	0.69	0.492	-1018.845	2105.026

```
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     =        105
                                                Average RVI       =     0.0049
                                                Largest FMI       =     0.0338
                                                Complete DF       =         94
DF adjustment:   Small sample                   DF:     min       =      87.08
                                                        avg       =      91.44
                                                        max       =      92.06
Model F test:       Equal FMI                   F(  10,   92.0)   =      10.33
Within VCE type:          OLS                   Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-141.1878	69.66594	-2.03	0.046	-279.5493	-2.82631
Sex	-217.3228	89.76258	-2.42	0.017	-395.5977	-39.04781
w1Age	1.980728	4.19143	0.47	0.638	-6.343751	10.30521
Race	0	(omitted)				
PovStat	-36.27053	75.26017	-0.48	0.631	-185.7429	113.2019
TIME_V1SCAN	.0921837	.051927	1.78	0.079	-.0109474	.1953147
w1BMI	11.47704	5.267643	2.18	0.032	1.015021	21.93906
w1TotalD	-1.149429	3.143011	-0.37	0.715	-7.393159	5.094301
w1Albumin	71.98856	131.6586	0.55	0.586	-189.4959	333.473
w1EosinPct	8.169717	15.51305	0.53	0.600	-22.66374	39.00318
ICV_volM2	.0026248	.0003042	8.63	0.000	.0020206	.003229
_cons	93.26609	813.5894	0.11	0.909	-1522.587	1709.119

```
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     =        105
                                                Average RVI       =     0.0023
                                                Largest FMI       =     0.0235
                                                Complete DF       =         94
DF adjustment:   Small sample                   DF:     min       =      89.01
                                                        avg       =      91.77
                                                        max       =      92.06
Model F test:       Equal FMI                   F(  10,   92.1)   =       0.66
Within VCE type:          OLS                   Prob > F          =     0.7606
```

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.8706028	.9544397	0.91	0.364	-1.024981	2.766187
Sex	-.4805308	1.229733	-0.39	0.697	-2.922866	1.961805
w1Age	.0596163	.0574236	1.04	0.302	-.054431	.1736636
Race	0	(omitted)				
PovStat	1.469983	1.031033	1.43	0.157	-.5777229	3.517689
TIME_V1SCAN	-.0002384	.0007114	-0.34	0.738	-.0016514	.0011745
w1BMI	.0518579	.0721581	0.72	0.474	-.091454	.1951698
w1TotalD	-.0013069	.0432555	-0.03	0.976	-.0872545	.0846408
w1Albumin	1.926225	1.803581	1.07	0.288	-1.655819	5.508269
w1EosinPct	.1096627	.2091176	0.52	0.601	-.3056608	.5249862
ICV_volM2	3.17e-06	4.17e-06	0.76	0.449	-5.11e-06	.0000114
_cons	-14.77016	11.14552	-1.33	0.188	-36.90598	7.36565

```
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     =        179
                                                    Average RVI       =     0.0231
                                                    Largest FMI       =     0.2181
                                                    Complete DF       =        166
    DF adjustment:   Small sample                   DF:     min       =      56.57
                                                            avg       =     154.88
                                                            max       =     163.98
    Model F test:       Equal FMI                   F(  12,  163.6)   =      12.86
    Within VCE type:          OLS                   Prob > F          =     0.0000
```

Left_Hippoca~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-153.7294	59.76309	-2.57	0.011	-271.7338	-35.72499
Race						
AfrAm	-214.1365	177.3229	-1.21	0.229	-564.2883	136.0153
Race#c.LnNFLw3						
AfrAm	52.52135	76.67012	0.69	0.494	-98.8668	203.9095
Sex	-32.35467	60.66143	-0.53	0.595	-152.1331	87.42372
w1Age	-3.033032	2.781404	-1.09	0.277	-8.525046	2.458981
Race	0	(omitted)				
PovStat	-133.7299	51.61973	-2.59	0.010	-235.6573	-31.8025
TIME_V1SCAN	.0374342	.0380844	0.98	0.327	-.0377689	.1126372
w1BMI	3.416133	3.589891	0.95	0.343	-3.672438	10.5047
w1TotalD	.1028411	2.728381	0.04	0.970	-5.361557	5.567239
w1Albumin	155.5064	87.28549	1.78	0.077	-16.84238	327.8551
w1EosinPct	-.6846338	11.31774	-0.06	0.952	-23.03888	21.66961
ICV_volM2	.0016852	.0002187	7.70	0.000	.0012533	.0021172
_cons	1181.218	545.2828	2.17	0.032	104.5226	2257.914

```
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     =        179
                                                Average RVI       =     0.0096
                                                Largest FMI       =     0.0730
                                                Complete DF       =        166
DF adjustment:   Small sample                   DF:     min       =     128.67
                                                        avg       =     160.29
                                                        max       =     164.03
Model F test:       Equal FMI                   F(  12,  163.9)   =      14.31
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hippoc~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -123.2444   62.57566    -1.97   0.051     -246.803    .3141101
               |
          Race |
        AfrAm  |  -224.6643   185.2776    -1.21   0.227    -590.5103    141.1817
               |
Race#c.LnNFLw3 |
        AfrAm  |   50.00832   80.26276     0.62   0.534     -108.474    208.4906
               |
           Sex |   -108.693   63.50036    -1.71   0.089    -234.0771     16.6911
         w1Age |  -1.716025   2.913163    -0.59   0.557    -7.468262    4.036212
          Race |           0  (omitted)
       PovStat |  -112.4272   54.00084    -2.08   0.039    -219.0552   -5.799204
   TIME_V1SCAN |   .0604448   .0397866     1.52   0.131    -.0181165     .139006
         w1BMI |   2.925458   3.752418     0.78   0.437    -4.483856    10.33477
       w1TotalD |  -2.181215   2.647481    -0.82   0.412    -7.419448    3.057019
      w1Albumin |   101.7301   91.33737     1.11   0.267    -78.61844    282.0787
     w1EosinPct |   4.095341   11.90118     0.34   0.731    -19.41631     27.607
      ICV_volM2 |   .0021233   .0002289     9.27   0.000     .0016712    .0025753
          _cons |   1084.153   570.3178     1.90   0.059    -41.96118    2210.268
------------------------------------------------------------------------------

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     =        179
                                                Average RVI       =     0.0040
                                                Largest FMI       =     0.0448
                                                Complete DF       =        166
DF adjustment:   Small sample                   DF:     min       =     146.18
                                                        avg       =     162.58
                                                        max       =     164.01
Model F test:       Equal FMI                   F(  12,  164.0)   =       0.96
Within VCE type:          OLS                   Prob > F          =     0.4874

------------------------------------------------------------------------------
LnLesion_Vol~e | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |   .7040864    .803774     0.88   0.382    -.8829942    2.291167
               |
          Race |
        AfrAm  |    2.18942   2.378809     0.92   0.359    -2.507671     6.88651
               |
Race#c.LnNFLw3 |
        AfrAm  |  -.4276578   1.031023    -0.41   0.679    -2.463448    1.608132
               |
           Sex |   .2531934   .8157277     0.31   0.757    -1.357489    1.863876
         w1Age |   .0645088    .037399     1.72   0.086    -.0093369    .1383546
```

Race	0	(omitted)				
PovStat	.7398965	.6933544	1.07	0.287	-.6291584	2.108951
TIME_V1SCAN	-.0005419	.0005108	-1.06	0.290	-.0015506	.0004667
w1BMI	.0336212	.0482297	0.70	0.487	-.0616109	.1288534
w1TotalD	.0127873	.0335449	0.38	0.704	-.0535084	.0790831
w1Albumin	.5315905	1.173692	0.45	0.651	-1.785904	2.849085
w1EosinPct	.1168167	.1505849	0.78	0.439	-.1805194	.4141527
ICV_volM2	2.11e-06	2.94e-06	0.72	0.475	-3.70e-06	7.91e-06
_cons	-6.516711	7.327796	-0.89	0.375	-20.98572	7.952299

```
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     =         74
                                              Average RVI       =     0.0104
                                              Largest FMI       =     0.0494
                                              Complete DF       =         64
DF adjustment:   Small sample                 DF:     min       =      57.40
                                                      avg       =      61.31
                                                      max       =      62.05
Model F test:       Equal FMI                 F(   9,   62.0)   =       6.56
Within VCE type:          OLS                 Prob > F          =     0.0000
```

Left_Hippo~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-104.2676	52.7806	-1.98	0.053	-209.7775	1.242393
Sex	66.18522	81.10168	0.82	0.418	-95.93255	228.303
w1Age	-4.799761	3.829827	-1.25	0.215	-12.45607	2.856551
Race	0	(omitted)				
PovStat	-212.6881	73.30654	-2.90	0.005	-359.2371	-66.1391
TIME_V1SCAN	.0275259	.0580426	0.47	0.637	-.0885352	.143587
w1BMI	-5.524984	5.002617	-1.10	0.274	-15.52624	4.476273
w1currdrugs	-142.6411	69.15877	-2.06	0.044	-281.1081	-4.174109
w1SRH	-40.31973	39.27379	-1.03	0.309	-118.8376	38.19819
ICV_volM2	.0013644	.0003305	4.13	0.000	.0007037	.0020251
_cons	2515.74	427.7788	5.88	0.000	1660.636	3370.845

```
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 = **74**
Average RVI = **0.0092**
Largest FMI = **0.0392**
Complete DF = **64**
DF adjustment: **Small sample** — DF: min = **58.64**
avg = **61.45**
max = **62.06**
Model F test: **Equal FMI** — F(**9**, **62.0**) = **6.65**
Within VCE type: **OLS** — Prob > F = **0.0000**

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-78.47796	52.29916	-1.50	0.139	-183.0252	26.06929
Sex	36.75969	80.36799	0.46	0.649	-123.8915	197.4109
w1Age	-5.052937	3.794515	-1.33	0.188	-12.6386	2.532723
Race	0	(omitted)				
PovStat	-191.1671	72.61059	-2.63	0.011	-336.3219	-46.0124
TIME_V1SCAN	.0494085	.0575316	0.86	0.394	-.0656325	.1644496
w1BMI	-7.487438	4.953155	-1.51	0.136	-17.38941	2.414539
w1currdrugs	-136.5243	68.19015	-2.00	0.050	-272.9898	-.0588054
w1SRH	-21.28619	38.91926	-0.55	0.586	-99.09543	56.52305
ICV_volM2	.0015128	.0003275	4.62	0.000	.0008582	.0021674
_cons	2533.941	423.8626	5.98	0.000	1686.668	3381.213

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

Multiple-imputation estimates — Imputations = **5**
Linear regression — Number of obs = **74**
Average RVI = **0.0025**
Largest FMI = **0.0119**
Complete DF = **64**
DF adjustment: **Small sample** — DF: min = **61.33**
avg = **61.95**
max = **62.08**
Model F test: **Equal FMI** — F(**9**, **62.1**) = **1.73**
Within VCE type: **OLS** — Prob > F = **0.1004**

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.1736594	.641344	0.27	0.787	-1.108352	1.45567
Sex	.8314792	.9861788	0.84	0.402	-1.139814	2.802772
w1Age	.0716963	.0464945	1.54	0.128	-.0212444	.1646371
Race	0	(omitted)				
PovStat	-.0463916	.8897053	-0.05	0.959	-1.824855	1.732072
TIME_V1SCAN	-.0010606	.0007025	-1.51	0.136	-.002465	.0003437
w1BMI	.0500645	.0606797	0.83	0.412	-.0712316	.1713605
w1currdrugs	.8599327	.8259846	1.04	0.302	-.7915481	2.511413
w1SRH	-.8061611	.4762904	-1.69	0.096	-1.758253	.145931
ICV_volM2	3.58e-06	4.01e-06	0.89	0.376	-4.45e-06	.0000116
_cons	-1.17858	5.201916	-0.23	0.822	-11.57679	9.219633

```
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     =        105
                                                  Average RVI       =     0.0039
                                                  Largest FMI       =     0.0229
                                                  Complete DF       =         95
    DF adjustment:   Small sample                 DF:     min       =      90.05
                                                          avg       =      92.59
                                                          max       =      93.03
    Model F test:       Equal FMI                 F(   9,   93.0)   =       9.12
    Within VCE type:          OLS                 Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippo~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
     LnNFLw3 |  -157.5429   67.13519    -2.35   0.021    -290.8614   -24.22443
         Sex |  -66.21608   85.00258    -0.78   0.438    -235.0193    102.5872
       w1Age |  -1.338338   4.040472    -0.33   0.741    -9.361884    6.685209
        Race |          0  (omitted)
     PovStat |  -56.75501   74.85348    -0.76   0.450    -205.4028    91.89277
 TIME_V1SCAN |    .038831   .0504353     0.77   0.443    -.0613351    .1389971
       w1BMI |   8.292882    4.87312     1.70   0.092    -1.384201    17.96997
 w1currdrugs |   73.31905   91.07356     0.81   0.423    -107.6132    254.2513
       w1SRH |    .023143   41.78233     0.00   1.000    -82.94806    82.99434
    ICV_volM2 |   .0019989   .0002928     6.83   0.000     .0014174    .0025803
       _cons |   1148.881   473.9316     2.42   0.017     207.7511    2090.011
------------------------------------------------------------------------------

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     =        105
                                                  Average RVI       =     0.0030
                                                  Largest FMI       =     0.0244
                                                  Complete DF       =         95
    DF adjustment:   Small sample                 DF:     min       =      89.79
                                                          avg       =      92.66
                                                          max       =      93.05
    Model F test:       Equal FMI                 F(   9,   93.0)   =      11.54
    Within VCE type:          OLS                 Prob > F          =     0.0000
```

Right_Hipp~s	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	-143.9577	69.35341	-2.08	0.041	-281.6792	-6.23607
Sex	-197.2471	87.77397	-2.25	0.027	-371.5493	-22.9449
w1Age	1.907259	4.175725	0.46	0.649	-6.384856	10.19937
Race	0	(omitted)				
PovStat	-35.66244	77.32696	-0.46	0.646	-189.22	117.8951
TIME_V1SCAN	.0926752	.0519999	1.78	0.078	-.01059	.1959404
w1BMI	10.73205	5.036857	2.13	0.036	.7298119	20.7343
w1currdrugs	35.30985	94.19606	0.37	0.709	-151.833	222.4527
w1SRH	-22.63068	43.17695	-0.52	0.601	-108.3709	63.10955
ICV_volM2	.0026135	.0003026	8.64	0.000	.0020126	.0032143
_cons	462.2879	489.9661	0.94	0.348	-510.6901	1435.266

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

Multiple-imputation estimates — Imputations = 5
Linear regression — Number of obs = 105
Average RVI = 0.0119
Largest FMI = 0.0947
Complete DF = 95
DF adjustment: **Small sample** — DF: min = 72.57
avg = 90.85
max = 93.06
Model F test: **Equal FMI** — F(9, 93.0) = 0.66
Within VCE type: **OLS** — Prob > F = 0.7384

LnLesion_V~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.8384743	.9513989	0.88	0.380	-1.050818	2.727767
Sex	-.293337	1.206075	-0.24	0.808	-2.688501	2.101827
w1Age	.0483808	.0573173	0.84	0.401	-.0654418	.1622034
Race	0	(omitted)				
PovStat	1.333167	1.059901	1.26	0.212	-.7715696	3.437904
TIME_V1SCAN	-.0002847	.0007129	-0.40	0.691	-.0017005	.0011311
w1BMI	.0125266	.0691227	0.18	0.857	-.1247403	.1497935
w1currdrugs	-1.011189	1.337649	-0.76	0.452	-3.677385	1.655006
w1SRH	-.2763866	.5924467	-0.47	0.642	-1.452874	.9001003
ICV_volM2	2.80e-06	4.15e-06	0.68	0.501	-5.44e-06	.000011
_cons	-3.04855	6.729484	-0.45	0.652	-16.41255	10.31545

```
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     =        179
                                                Average RVI       =     0.0024
                                                Largest FMI       =     0.0229
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     158.20
                                                        avg       =     164.40
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =      13.98
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Left_Hippoca~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -154.4432   59.96591    -2.58   0.011    -272.8425   -36.04383
               |
          Race |
        AfrAm  |  -227.3718   174.4517    -1.30   0.194    -571.8171    117.0735
               |
Race#c.LnNFLw3 |
        AfrAm  |   57.98736   76.97151     0.75   0.452    -93.98862    209.9633
               |
           Sex |  -16.23263   59.66032    -0.27   0.786    -134.0287    101.5634
         w1Age |   -3.60028   2.777788    -1.30   0.197    -9.084877    1.884317
          Race |          0  (omitted)
       PovStat |  -140.6944    52.3753    -2.69   0.008    -244.1065    -37.2822
   TIME_V1SCAN |    .030428   .0375742     0.81   0.419    -.0437607    .1046166
         w1BMI |   1.432006     3.4821     0.41   0.681     -5.44325    8.307263
   w1currdrugs |  -35.52133   56.62998    -0.63   0.531    -147.3696    76.32698
         w1SRH |  -22.48158   28.71336    -0.78   0.435    -79.17465    34.21148
     ICV_volM2 |   .0016895   .0002201     7.68   0.000     .0012549    .0021242
         _cons |   1994.892   336.8131     5.92   0.000     1329.869    2659.915
------------------------------------------------------------------------------

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     =        179
                                                Average RVI       =     0.0038
                                                Largest FMI       =     0.0355
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     152.16
                                                        avg       =     163.87
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =      15.74
Within VCE type:          OLS                   Prob > F          =     0.0000

------------------------------------------------------------------------------
Right_Hippoc~s | Coefficient  Std. err.      t    P>|t|     [95% conf. interval]
---------------+--------------------------------------------------------------
       LnNFLw3 |  -126.6761   62.39146    -2.03   0.044    -249.8647   -3.487593
               |
          Race |
        AfrAm  |  -210.2101   181.5183    -1.16   0.249    -568.6087    148.1885
               |
Race#c.LnNFLw3 |
        AfrAm  |   52.83383   80.08301     0.66   0.510    -105.2857    210.9533
               |
           Sex |  -95.50187   62.08348    -1.54   0.126    -218.0827    27.07893
```

w1Age	-2.362485	2.890044	-0.82	0.415	-8.068725	3.343755
Race	0	(omitted)				
PovStat	-118.4607	54.48985	-2.17	0.031	-226.0478	-10.87349
TIME_V1SCAN	.0645637	.0391103	1.65	0.101	-.0126583	.1417858
w1BMI	1.718411	3.622652	0.47	0.636	-5.434355	8.871177
w1currdrugs	-49.5227	59.28927	-0.84	0.405	-166.6592	67.61379
w1SRH	-29.96362	29.88442	-1.00	0.317	-88.96923	29.04199
ICV_volM2	.0021225	.000229	9.27	0.000	.0016703	.0025746
_cons	1611.421	350.4185	4.60	0.000	919.5351	2303.307

```
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     =        179
                                                Average RVI       =     0.0052
                                                Largest FMI       =     0.0553
                                                Complete DF       =        167
DF adjustment:   Small sample                   DF:     min       =     140.71
                                                        avg       =     162.89
                                                        max       =     165.03
Model F test:       Equal FMI                   F(  11,  165.0)   =       1.13
Within VCE type:          OLS                   Prob > F          =     0.3392
```

LnLesion_Vol~e	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw3	.7040204	.7988592	0.88	0.379	-.8732829	2.281324
Race						
AfrAm	1.957529	2.32393	0.84	0.401	-2.630942	6.545999
Race#c.LnNFLw3						
AfrAm	-.4288393	1.025505	-0.42	0.676	-2.453645	1.595966
Sex	.3843013	.7947526	0.48	0.629	-1.184893	1.953496
w1Age	.0649802	.0370095	1.76	0.081	-.0080932	.1380537
Race	0	(omitted)				
PovStat	.6312987	.698168	0.90	0.367	-.7472096	2.009807
TIME_V1SCAN	-.0005501	.0005007	-1.10	0.273	-.0015387	.0004385
w1BMI	.024784	.0464148	0.53	0.594	-.066861	.116429
w1currdrugs	.1919263	.7666495	0.25	0.803	-1.323715	1.707567
w1SRH	-.4907266	.3824306	-1.28	0.201	-1.245814	.2643606
ICV_volM2	2.49e-06	2.93e-06	0.85	0.397	-3.30e-06	8.28e-06
_cons	-2.779208	4.488362	-0.62	0.537	-11.64133	6.082914

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

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