```
                                              __   __   __   __   ___(R)
                                             /_   /   __/  /   ___/
                                            __/  /  /__/  /   /__/
                                              Statistics/Data analysis
```

```
  1 .
  2 .
  3 . /////////////////////////////////////////////TABLE S6: TOTAL AND GM/WM VOLUMES VS. NFL exposures by Race******
    > /////////////////////////////////////LnNFLw1 EXPOSURE/////////////////////////////////////////////
    >
  4 .
  5 . **********************LnNFLw1, MODELS 1 AND 2********************
  6 .
  7 . ********************AFRICAN-AMERICAN********************************************************
  8 .
  9 . **Model 1**
 10 .
 11 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

 12 .
 13 .
 14 . //ANALYSIS A//
 15 . reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN     if Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS
Model	3.8757e+11	5	7.7514e+10
Residual	6.0115e+11	75	8.0153e+09
Total	9.8872e+11	80	1.2359e+10

Number of obs = 81
F(5, 75) = 9.67
Prob > F = 0.0000
R-squared = 0.3920
Adj R-squared = 0.3515
Root MSE = 89528

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-39141.13	22333.57	-1.75	0.084	-.1867362
Sex	122553	20175.82	6.07	0.000	.5535672
w1Age	-1292.744	1325.605	-0.98	0.333	-.1134078
Race	0	(omitted)			.
PovStat	27663.09	24606.42	1.12	0.265	.1230265
TIME_V1SCAN	-34.6463	18.67149	-1.86	0.067	-.1842449
_cons	1093615	80417.88	13.60	0.000	.

```
 16 . reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN     if Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS
Model	1.2807e+11	5	2.5615e+10
Residual	1.9587e+11	75	2.6115e+09
Total	3.2394e+11	80	4.0492e+09

Number of obs = 81
F(5, 75) = 9.81
Prob > F = 0.0000
R-squared = 0.3954
Adj R-squared = 0.3551
Root MSE = 51103

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-23036.52	12748.11	-1.81	0.075	-.1920073
Sex	61484.77	11516.45	5.34	0.000	.4851989
w1Age	-1453.311	756.6615	-1.92	0.059	-.2227382
Race	0	(omitted)			.
PovStat	15430.21	14045.46	1.10	0.275	.119888
TIME_V1SCAN	-20.51024	10.65778	-1.92	0.058	-.1905528
_cons	658615.8	45902.91	14.35	0.000	.

17 . reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if Race==2,beta
note: **Race** omitted because of collinearity.

Source	SS	df	MS		Number of obs	=	81
					F(5, 75)	=	6.79
Model	5.8520e+10	5	1.1704e+10		Prob > F	=	0.0000
Residual	1.2927e+11	75	1.7236e+09		R-squared	=	0.3116
					Adj R-squared	=	0.2657
Total	1.8779e+11	80	2.3473e+09		Root MSE	=	41516

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-14877.81	10356.46	-1.44	0.155	-.1628688
Sex	49266.2	9355.872	5.27	0.000	.5106215
w1Age	-367.6784	614.7055	-0.60	0.552	-.074012
Race	0	(omitted)			.
PovStat	6267.034	11410.42	0.55	0.584	.0639534
TIME_V1SCAN	-12.84856	8.65829	-1.48	0.142	-.1567822
_cons	438369.4	37291.14	11.76	0.000	.

18 .
19 .
20 . **Model 2**
21 .
22 . use finaldata_imputed,clear

23 .
24 .
25 . //ANALYSIS A//
26 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

Multiple-imputation estimates				Imputations	=	5
Linear regression				Number of obs	=	81
				Average RVI	=	0.0000
				Largest FMI	=	0.0000
				Complete DF	=	74
DF adjustment:	**Small sample**			DF: min	=	72.08
				avg	=	72.08
				max	=	72.08
Model F test:	**Equal FMI**			F(6, 72.1)	=	7.96
Within VCE type:	**OLS**			Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-36856.98	25207.42	-1.46	0.148	-87106.13	13392.17
Sex	123301.6	20647.51	5.97	0.000	82142.27	164460.9
w1Age	-1419.221	1476.171	-0.96	0.340	-4361.859	1523.417
Race	0	(omitted)				
PovStat	26817.8	25122.72	1.07	0.289	-23262.51	76898.1
TIME_V1SCAN	-34.24583	18.89829	-1.81	0.074	-71.91819	3.42653
w1BMI	370.7865	1851.981	0.20	0.842	-3321.002	4062.575
_cons	1083543	95296.62	11.37	0.000	893576.5	1273510

27 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

```
Multiple-imputation estimates           Imputations       =          5
Linear regression                       Number of obs     =         81
                                        Average RVI       =     0.0000
                                        Largest FMI       =     0.0000
                                        Complete DF       =         74
DF adjustment:    Small sample          DF:     min       =      72.08
                                                avg       =      72.08
                                                max       =      72.08
Model F test:        Equal FMI          F(  6,   72.1)    =       8.10
Within VCE type:           OLS          Prob > F          =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-20571.72	14378.48	-1.43	0.157	-49234.17	8090.737
Sex	62292.52	11777.48	5.29	0.000	38814.98	85770.05
w1Age	-1589.791	842.0177	-1.89	0.063	-3268.292	88.70947
Race	0	(omitted)				
PovStat	14518.06	14330.17	1.01	0.314	-14048.08	43084.21
TIME_V1SCAN	-20.0781	10.77971	-1.86	0.067	-41.56667	1.410466
w1BMI	400.1116	1056.382	0.38	0.706	-1705.709	2505.932
_cons	647747.7	54357.83	11.92	0.000	539389.4	756106.1

28 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

```
Multiple-imputation estimates           Imputations       =          5
Linear regression                       Number of obs     =         81
                                        Average RVI       =     0.0000
                                        Largest FMI       =     0.0000
                                        Complete DF       =         74
DF adjustment:    Small sample          DF:     min       =      72.08
                                                avg       =      72.08
                                                max       =      72.08
Model F test:        Equal FMI          F(  6,   72.1)    =       5.59
Within VCE type:           OLS          Prob > F          =     0.0001
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-15362.94	11691.61	-1.31	0.193	-38669.32	7943.432
Sex	49107.21	9576.651	5.13	0.000	30016.86	68197.57
w1Age	-340.8157	684.6721	-0.50	0.620	-1705.659	1024.028
Race	0	(omitted)				
PovStat	6446.566	11652.33	0.55	0.582	-16781.5	29674.63
TIME_V1SCAN	-12.93361	8.765336	-1.48	0.144	-30.40667	4.539441
w1BMI	-78.75185	858.9789	-0.09	0.927	-1791.063	1633.56
_cons	440508.5	44200.12	9.97	0.000	352398.8	528618.2

29 .

30 . save, replace
   file **finaldata_imputed.dta** saved

31 .
32 . *********************WHITES***
33 .
34 . **Model 1**
35 .
36 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

37 .
38 .
39 . //ANALYSIS A//
40 . reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if Race==1,beta
   note: **Race** omitted because of collinearity.

Source	SS	df	MS		
				Number of obs	=	119
				F(5, 113)	=	20.85
Model	7.9246e+11	5	1.5849e+11	Prob > F	=	0.0000
Residual	8.5905e+11	113	7.6022e+09	R-squared	=	0.4798
				Adj R-squared	=	0.4568
Total	1.6515e+12	118	1.3996e+10	Root MSE	=	87191

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	27518.28	19194.41	1.43	0.154	.1167783
Sex	146890.3	16376.03	8.97	0.000	.6197101
w1Age	-2625.562	1105.888	-2.37	0.019	-.1916081
Race	0	(omitted)			.
PovStat	-18573.54	18800.95	-0.99	0.325	-.0705808
TIME_V1SCAN	-30.22576	12.71312	-2.38	0.019	-.168501
_cons	1107771	64398.96	17.20	0.000	.

41 . reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if Race==1,beta
   note: **Race** omitted because of collinearity.

Source	SS	df	MS		
				Number of obs	=	119
				F(5, 113)	=	22.23
Model	2.3320e+11	5	4.6640e+10	Prob > F	=	0.0000
Residual	2.3712e+11	113	2.0984e+09	R-squared	=	0.4958
				Adj R-squared	=	0.4735
Total	4.7032e+11	118	3.9858e+09	Root MSE	=	45809

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	7405.259	10084.47	0.73	0.464	.0588876
Sex	77679.74	8603.732	9.03	0.000	.6141104
w1Age	-1982.058	581.0178	-3.41	0.001	-.2710511
Race	0	(omitted)			.
PovStat	-12224.03	9877.745	-1.24	0.218	-.0870461
TIME_V1SCAN	-12.97177	6.67929	-1.94	0.055	-.1355088
_cons	668896.6	33834.28	19.77	0.000	.

42 . reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if Race==1,beta
   note: **Race** omitted because of collinearity.

Source	SS	df	MS		
Model	1.3894e+11	5	2.7788e+10		
Residual	2.1826e+11	113	1.9315e+09		
Total	3.5720e+11	118	3.0271e+09		

Number of obs = 119
F(5, 113) = 14.39
Prob > F = 0.0000
R-squared = 0.3890
Adj R-squared = 0.3619
Root MSE = 43949

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	15367.19	9674.962	1.59	0.115	.1402241
Sex	59893.45	8254.355	7.26	0.000	.5433284
w1Age	-964.2825	557.4241	-1.73	0.086	-.1513155
Race	0	(omitted)			.
PovStat	-8148.199	9476.634	-0.86	0.392	-.0665796
TIME_V1SCAN	-15.95473	6.40806	-2.49	0.014	-.1912503
_cons	433643.4	32460.36	13.36	0.000	.

43 .
44 .
45 . **Model 2**
46 .
47 . use finaldata_imputed,clear

48 .
49 .
50 .
51 . //ANALYSIS A//
52 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   119
                                     Average RVI   =   0.0000
                                     Largest FMI   =   0.0000
                                     Complete DF   =   112
DF adjustment: **Small sample**   DF: min   =   110.05
                                               avg   =   110.05
                                               max   =   110.05
Model F test: **Equal FMI**   F(6, 110.1) =   17.34
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	28715.38	19349.47	1.48	0.141	-9630.519	67061.28
Sex	148502.4	16636.13	8.93	0.000	115533.7	181471.1
w1Age	-2616.414	1109.1	-2.36	0.020	-4814.379	-418.4496
Race	0	(omitted)				
PovStat	-18353.59	18857.3	-0.97	0.333	-55724.13	19016.95
TIME_V1SCAN	-29.24299	12.85158	-2.28	0.025	-54.71167	-3.774299
w1BMI	720.8249	1189.409	0.61	0.546	-1636.293	3077.943
_cons	1079097	80057.13	13.48	0.000	920443.8	1237751

53 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   119
                                                 Average RVI   =   0.0000
                                                 Largest FMI   =   0.0000
                                                 Complete DF   =   112
DF adjustment: **Small sample**   DF: min   =   110.05
                                                         avg   =   110.05
                                                         max   =   110.05
Model F test: **Equal FMI**   F(6, 110.1)   =   18.57
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	8241.897	10153.1	0.81	0.419	-11879.05	28362.84
Sex	78806.44	8729.346	9.03	0.000	61507.02	96105.87
w1Age	-1975.665	581.9696	-3.39	0.001	-3128.986	-822.3436
Race	0	(omitted)				
PovStat	-12070.3	9894.843	-1.22	0.225	-31679.46	7538.849
TIME_V1SCAN	-12.28492	6.743511	-1.82	0.071	-25.64891	1.079063
w1BMI	503.7765	624.1095	0.81	0.421	-733.0556	1740.609
_cons	648856.9	42007.76	15.45	0.000	565607.8	732105.9

54 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   119
                                                 Average RVI   =   0.0000
                                                 Largest FMI   =   0.0000
                                                 Complete DF   =   112
DF adjustment: **Small sample**   DF: min   =   110.05
                                                         avg   =   110.05
                                                         max   =   110.05
Model F test: **Equal FMI**   F(6, 110.1)   =   11.95
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	15862.33	9758.339	1.63	0.107	-3476.307	35200.96
Sex	60560.25	8389.946	7.22	0.000	43933.43	77187.06
w1Age	-960.499	559.3423	-1.72	0.089	-2068.978	147.9804
Race	0	(omitted)				
PovStat	-8057.223	9510.127	-0.85	0.399	-26903.96	10789.52
TIME_V1SCAN	-15.54824	6.481321	-2.40	0.018	-28.39263	-2.703852
w1BMI	298.1443	599.8439	0.50	0.620	-890.5992	1486.888
_cons	421783.5	40374.48	10.45	0.000	341771.2	501795.8

55 .

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

```
57 .
58 .
59 .
60 . //INTERACTION BY Race//
61 .
62 .
63 . //ANALYSIS A//
64 . mi estimate: reg TOTALBRAIN c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI
```

```
Multiple-imputation estimates          Imputations     =          5
Linear regression                      Number of obs   =        200
                                       Average RVI     =     0.0000
                                       Largest FMI     =     0.0000
                                       Complete DF     =        191
DF adjustment:     Small sample        DF:    min      =     189.03
                                              avg      =     189.03
                                              max      =     189.03
Model F test:      Equal FMI           F(   8,  189.0) =      21.83
Within VCE type:         OLS           Prob > F        =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	30184.24	18092.96	1.67	0.097	-5505.808	65874.29
Race						
AfrAm	55512.94	50813.38	1.09	0.276	-44721.17	155747.1
Race#c.LnNFLw1						
AfrAm	-61227.39	24712.15	-2.48	0.014	-109974.4	-12480.37
Sex	138680.7	12877.42	10.77	0.000	113278.8	164082.6
w1Age	-2438.295	835.9525	-2.92	0.004	-4087.289	-789.3009
Race	0	(omitted)				
PovStat	-1875.88	14573.57	-0.13	0.898	-30623.6	26871.84
TIME_V1SCAN	-29.40827	10.46079	-2.81	0.005	-50.04316	-8.773378
w1BMI	813.6251	978.4212	0.83	0.407	-1116.402	2743.652
_cons	1058088	64094.45	16.51	0.000	931656	1184521

```
65 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI
```

```
Multiple-imputation estimates          Imputations     =          5
Linear regression                      Number of obs   =        200
                                       Average RVI     =     0.0000
                                       Largest FMI     =     0.0000
                                       Complete DF     =        191
DF adjustment:     Small sample        DF:    min      =     189.03
                                              avg      =     189.03
                                              max      =     189.03
Model F test:      Equal FMI           F(   8,  189.0) =      24.14
Within VCE type:         OLS           Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	10651.54	9861.946	1.08	0.281	-8802.064	30105.15
Race						
AfrAm	11473.52	27696.89	0.41	0.679	-43161.18	66108.22
Race#c.LnNFLw1						
AfrAm	-29797.99	13469.87	-2.21	0.028	-56368.57	-3227.409
Sex	72095.79	7019.106	10.27	0.000	58249.95	85941.63
w1Age	-2016.792	455.6534	-4.43	0.000	-2915.611	-1117.973
Race	0	(omitted)				
PovStat	-2153.442	7943.628	-0.27	0.787	-17822.99	13516.1
TIME_V1SCAN	-14.3153	5.701874	-2.51	0.013	-25.56278	-3.067824
w1BMI	548.9267	533.3089	1.03	0.305	-503.0748	1600.928
_cons	645322.4	34936.02	18.47	0.000	576407.9	714237

66 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =        200
                                           Average RVI       =     0.0000
                                           Largest FMI       =     0.0000
                                           Complete DF       =        191
DF adjustment:   Small sample              DF:      min      =     189.03
                                                    avg      =     189.03
                                                    max      =     189.03
Model F test:        Equal FMI             F(   8,   189.0)  =      14.21
Within VCE type:          OLS              Prob > F          =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	15430.08	8804.307	1.75	0.081	-1937.232	32797.4
Race						
AfrAm	36711.36	24726.56	1.48	0.139	-12064.07	85486.79
Race#c.LnNFLw1						
AfrAm	-26988.41	12025.31	-2.24	0.026	-50709.44	-3267.374
Sex	56243.41	6266.346	8.98	0.000	43882.45	68604.36
w1Age	-817.7215	406.7871	-2.01	0.046	-1620.147	-15.29615
Race	0	(omitted)				
PovStat	-2933.748	7091.718	-0.41	0.680	-16922.82	11055.33
TIME_V1SCAN	-14.02069	5.09038	-2.75	0.006	-24.06194	-3.97944
w1BMI	275.7076	476.1145	0.58	0.563	-663.4726	1214.888
_cons	413222.9	31189.33	13.25	0.000	351699	474746.7

67 .
68 . save, replace
   file **finaldata_imputed.dta** saved

69 .
70 .
71 . *******************LnNFLw1, MODELS 3-6*************************
72 .
73 . ***********MODEL 3: MODEL 2+w1dxDiabetes w1Glucose******
74 .
75 . //AFRICAN-AMERICAN//
76 .
77 . use finaldata_imputed,clear

78 .
79 .
80 .
81 . //ANALYSIS A//
82 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   81
                                               Average RVI   =   0.0048
                                               Largest FMI   =   0.0234
                                               Complete DF   =   72
    DF adjustment: **Small sample**   DF: min   =   67.99
                                                        avg   =   69.53
                                                        max   =   70.02
    Model F test: **Equal FMI**   F(8,   70.1) =   6.76
    Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-50022.53	25764.1	-1.94	0.056	-101411.1	1366.075
Sex	118116.8	20696.46	5.71	0.000	76836.8	159396.8
w1Age	-528.7464	1515.93	-0.35	0.728	-3552.473	2494.98
Race	0	(omitted)				
PovStat	26483.97	24694.38	1.07	0.287	-22768.24	75736.17
TIME_V1SCAN	-38.11484	18.66101	-2.04	0.045	-75.33288	-.8967875
w1BMI	-62.30384	1840.888	-0.03	0.973	-3734.187	3609.579
w1dxDiabetes	-42282.32	20144.59	-2.10	0.040	-82480.32	-2084.328
w1Glucose	983.7591	590.0084	1.67	0.100	-193.1334	2160.652
_cons	1016358	103152.4	9.85	0.000	810608.3	1222107

83 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   81
                                               Average RVI   =   0.0069
                                               Largest FMI   =   0.0341
                                               Complete DF   =   72
    DF adjustment: **Small sample**   DF: min   =   66.67
                                                        avg   =   69.01
                                                        max   =   69.97
    Model F test: **Equal FMI**   F(8,   70.0) =   7.31
    Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-29924.5	14553.01	-2.06	0.044	-58957.5	-891.5061
Sex	59077.35	11665.03	5.06	0.000	35808.86	82345.84
w1Age	-969.225	856.0743	-1.13	0.261	-2677.113	738.6631
Race	0	(omitted)				
PovStat	14404.27	13895.49	1.04	0.303	-13310.31	42118.86
TIME_V1SCAN	-22.79991	10.49971	-2.17	0.033	-43.7411	-1.858731
w1BMI	118.2988	1037.935	0.11	0.910	-1952.224	2188.822
w1dxDiabetes	-29225.35	11387.19	-2.57	0.013	-51956.36	-6494.339
w1Glucose	626.3224	333.4479	1.88	0.065	-38.9743	1291.619
_cons	605539.4	58007.44	10.44	0.000	489837.9	721241

84 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   81
                                       Average RVI   =   0.0074
                                       Largest FMI   =   0.0576
                                       Complete DF   =   72
DF adjustment: **Small sample**   DF: min   =   63.22
                                               avg   =   69.02
                                               max   =   70.04
Model F test: **Equal FMI**   F(8,   70.0) =   4.45
Within VCE type: **OLS**   Prob > F   =   0.0002

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-19321.68	12130.75	-1.59	0.116	-43515.85	4872.493
Sex	47271.63	9746.902	4.85	0.000	27832.09	66711.17
w1Age	-65.85341	713.8963	-0.09	0.927	-1489.728	1358.021
Race	0	(omitted)				
PovStat	6267.311	11640.52	0.54	0.592	-16948.91	29483.53
TIME_V1SCAN	-14.11362	8.799873	-1.60	0.113	-31.66425	3.437011
w1BMI	-223.7692	866.4017	-0.26	0.797	-1951.772	1504.233
w1dxDiabetes	-13227.12	9662.132	-1.37	0.176	-32534.06	6079.823
w1Glucose	339.3643	279.5795	1.21	0.229	-218.446	897.1746
_cons	416981.7	48675.92	8.57	0.000	319889.8	514073.7

85 .
86 . save, replace
   file **finaldata_imputed.dta** saved

87 .
88 .
89 .
90 . //WHITES//
91 .
92 . use finaldata_imputed,clear

```
93 .
94 .
95 . //ANALYSIS A//
96 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if Race==1
```

```
Multiple-imputation estimates              Imputations       =           5
Linear regression                          Number of obs     =         119
                                           Average RVI       =      0.0002
                                           Largest FMI       =      0.0014
                                           Complete DF       =         110
DF adjustment:    Small sample             DF:    min        =      107.94
                                                  avg        =      108.03
                                                  max        =      108.05
Model F test:        Equal FMI             F(   8,  108.1)   =       13.20
Within VCE type:          OLS              Prob > F          =      0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	35281.89	20842.7	1.69	0.093	-6032.225	76596
Sex	148215.5	17106.74	8.66	0.000	114307.2	182123.9
w1Age	-2831.269	1126.771	-2.51	0.013	-5064.729	-597.8098
Race	0	(omitted)				
PovStat	-19199.71	19103	-1.01	0.317	-57064.95	18665.53
TIME_V1SCAN	-27.96737	13.21524	-2.12	0.037	-54.16212	-1.772611
w1BMI	831.0892	1277.872	0.65	0.517	-1701.861	3364.039
w1dxDiabetes	18477.51	18169.77	1.02	0.311	-17537.94	54492.97
w1Glucose	-532.2665	399.1456	-1.33	0.185	-1323.438	258.9053
_cons	1118396	88533.9	12.63	0.000	942906.9	1293884

```
97 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if Race==1
```

```
Multiple-imputation estimates              Imputations       =           5
Linear regression                          Number of obs     =         119
                                           Average RVI       =      0.0001
                                           Largest FMI       =      0.0009
                                           Complete DF       =         110
DF adjustment:    Small sample             DF:    min        =      107.99
                                                  avg        =      108.03
                                                  max        =      108.05
Model F test:        Equal FMI             F(   8,  108.1)   =       13.91
Within VCE type:          OLS              Prob > F          =      0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	10400.42	10978.54	0.95	0.346	-11360.97	32161.81
Sex	78509.48	9012.534	8.71	0.000	60645.17	96373.78
w1Age	-2060.796	593.6009	-3.47	0.001	-3237.416	-884.176
Race	0	(omitted)				
PovStat	-12526.04	10064.57	-1.24	0.216	-32475.66	7423.578
TIME_V1SCAN	-11.67039	6.962387	-1.68	0.097	-25.47097	2.130193
w1BMI	522.4863	673.2581	0.78	0.439	-812.0207	1856.993
w1dxDiabetes	7454.264	9573.547	0.78	0.438	-11522.1	26430.63
w1Glucose	-195.1251	210.3193	-0.93	0.356	-612.0134	221.7633
_cons	664639.6	46647.02	14.25	0.000	572177.5	757101.7

98 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==1

Multiple-imputation estimates
Linear regression

Imputations	=	5
Number of obs	=	119
Average RVI	=	0.0003
Largest FMI	=	0.0020
Complete DF	=	110

DF adjustment: **Small sample**

DF:	min	=	107.87
	avg	=	108.01
	max	=	108.05

Model F test: **Equal FMI**   F(8, 108.1) = 9.07
Within VCE type: **OLS**   Prob > F   = 0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	19111.9	10531.82	1.81	0.072	-1764.041	39987.83
Sex	60716.06	8645.872	7.02	0.000	43578.51	77853.61
w1Age	-1045.482	569.3349	-1.84	0.069	-2173.998	83.0354
Race	0	(omitted)				
PovStat	-8214.901	9654.496	-0.85	0.397	-27351.69	10921.88
TIME_V1SCAN	-15.20369	6.67916	-2.28	0.025	-28.4429	-1.964489
w1BMI	378.5175	645.8368	0.59	0.559	-901.6368	1658.672
w1dxDiabetes	7117.368	9190.168	0.77	0.440	-11099.4	25334.13
w1Glucose	-233.8437	201.7504	-1.16	0.249	-633.7472	166.0599
_cons	437024.3	44747.09	9.77	0.000	348328.2	525720.5

99 .
100 .
101 . save, replace
   file **finaldata_imputed.dta** saved

102 .
103 .
104 . //INTERACTION BY Race//
105 .
106 .
107 .
108 . //ANALYSIS A//
109 . mi estimate: reg TOTALBRAIN c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
Linear regression

Imputations	=	5
Number of obs	=	200
Average RVI	=	0.0041
Largest FMI	=	0.0445
Complete DF	=	189

DF adjustment: **Small sample**

DF:	min	=	165.23
	avg	=	184.31
	max	=	187.02

Model F test: **Equal FMI**   F(10, 187.0) = 17.31
Within VCE type: **OLS**   Prob > F   = 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	32731.21	19207.7	1.70	0.090	-5160.42	70622.84
Race						
AfrAm	63914.97	52515.47	1.22	0.225	-39683.97	167513.9
Race#c.LnNFLw1						
AfrAm	-65479.69	25669.08	-2.55	0.012	-116117.9	-14841.52
Sex	140293.7	13151.78	10.67	0.000	114348.7	166238.6

w1Age	-2340.526	860.6592	-2.72	0.007	-4038.402	-642.6504
Race	0	(omitted)				
PovStat	-1010.91	14676.5	-0.07	0.945	-29963.68	27941.86
TIME_V1SCAN	-30.80037	10.66959	-2.89	0.004	-51.8487	-9.752033
w1BMI	994.2938	1020.682	0.97	0.331	-1019.245	3007.832
w1dxDiabetes	-7589.74	13561.56	-0.56	0.576	-34366.02	19186.54
w1Glucose	-8.693695	330.9706	-0.03	0.979	-661.741	644.3537
_cons	1045886	69098.53	15.14	0.000	909565.9	1182206

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

```
Multiple-imputation estimates              Imputations      =         5
Linear regression                          Number of obs    =       200
                                           Average RVI      =    0.0013
                                           Largest FMI      =    0.0126
                                           Complete DF      =       189
DF adjustment:    Small sample             DF:     min      =    183.45
                                                   avg      =    186.51
                                                   max      =    187.02
Model F test:     Equal FMI                F( 10,  187.0)   =     19.38
Within VCE type:        OLS                Prob > F         =    0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	11032.48	10445.87	1.06	0.292	-9574.43	31639.4
Race						
AfrAm	16344.91	28557.77	0.57	0.568	-39991.92	72681.74
Race#c.LnNFLw1						
AfrAm	-32100.95	13959.89	-2.30	0.023	-59640.09	-4561.818
Sex	72983.37	7151.821	10.20	0.000	58874.73	87092.02
w1Age	-1899.393	467.6714	-4.06	0.000	-2821.987	-976.7988
Race	0	(omitted)				
PovStat	-1569.634	7981.023	-0.20	0.844	-17314.03	14174.77
TIME_V1SCAN	-15.49148	5.799913	-2.67	0.008	-26.93315	-4.049811
w1BMI	644.8763	554.9978	1.16	0.247	-449.9881	1739.741
w1dxDiabetes	-8551.88	7258.741	-1.18	0.240	-22873.23	5769.465
w1Glucose	93.57038	178.8651	0.52	0.602	-259.2955	446.4362
_cons	630151.5	37499.98	16.80	0.000	556173	704130.1

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

```
Multiple-imputation estimates              Imputations      =         5
Linear regression                          Number of obs    =       200
                                           Average RVI      =    0.0072
                                           Largest FMI      =    0.0761
                                           Complete DF      =       189
DF adjustment:    Small sample             DF:     min      =    140.94
                                                   avg      =    181.30
                                                   max      =    187.01
Model F test:     Equal FMI                F( 10,  186.9)   =     11.20
Within VCE type:        OLS                Prob > F         =    0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16752.21	9354.239	1.79	0.075	-1701.187	35205.61
Race						
AfrAm	39679.66	25579.48	1.55	0.123	-10781.91	90141.24
Race#c.LnNFLw1						
AfrAm	-28551.38	12502.61	-2.28	0.024	-53215.69	-3887.069
Sex	56836	6405.12	8.87	0.000	44200.39	69471.6
w1Age	-806.3487	419.4609	-1.92	0.056	-1633.855	21.15813
Race	0	(omitted)				
PovStat	-2659.247	7147.831	-0.37	0.710	-16759.99	11441.5
TIME_V1SCAN	-14.37234	5.198161	-2.76	0.006	-24.62702	-4.117655
w1BMI	343.4976	497.0989	0.69	0.490	-637.1492	1324.144
w1dxDiabetes	-1093.954	6709.78	-0.16	0.871	-14358.78	12170.87
w1Glucose	-41.10125	162.2264	-0.25	0.800	-361.2797	279.0772
_cons	412007.6	33718.07	12.22	0.000	345484.4	478530.8

```
112 .
113 . save, replace
     file finaldata_imputed.dta saved

114 .
115 .
116 . ***********MODEL 4: MODEL 2+liver/kidney disease******
117 .
118 . //AFRICAN-AMERICAN//
119 .
120 . use finaldata_imputed,clear

121 .
122 .
123 .
124 . //ANALYSIS A//
125 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	81
		Average RVI	=	0.0663
		Largest FMI	=	0.4696
		Complete DF	=	69
DF adjustment: **Small sample**		DF: min	=	14.45
		avg	=	59.38
		max	=	66.56
Model F test: **Equal FMI**		F(11, 66.2)	=	4.48
Within VCE type: **OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-43489.8	25878.73	-1.68	0.098	-95159.99	8180.39
Sex	153178.5	27172.35	5.64	0.000	98426.07	207931
w1Age	-1052.436	1682.004	-0.63	0.534	-4410.903	2306.032
Race	0	(omitted)				
PovStat	30614.19	25586.83	1.20	0.236	-20463.48	81691.87
TIME_V1SCAN	-38.85199	19.53182	-1.99	0.051	-77.84889	.1449157
w1BMI	1792.188	2009.86	0.89	0.376	-2223.372	5807.748
w1Creatinine	-60228.15	65553.12	-0.92	0.373	-200411.8	79955.46
w1USpecGrav	-1096051	1591647	-0.69	0.493	-4273713	2081610
w1BUN	-54.07298	3527.454	-0.02	0.988	-7106.223	6998.077
w1ALP	638.6171	528.795	1.21	0.231	-417.1056	1694.34

w1UricAcid	-7261.901	8948.756	-0.81	0.420	-25129.76	10605.96
_cons	2165603	1618943	1.34	0.186	-1066494	5397701

126 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	81
		Average RVI	=	0.0523
		Largest FMI	=	0.4248
		Complete DF	=	69
DF adjustment: **Small sample**		DF: min	=	16.77
		avg	=	60.73
		max	=	66.88
Model F test: **Equal FMI**		F(11, 66.5)	=	4.28
Within VCE type: **OLS**		Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-24303.23	14930.49	-1.63	0.108	-54105.61	5499.146
Sex	72950.87	15468.01	4.72	0.000	41890.29	104011.5
w1Age	-1550.413	973.3564	-1.59	0.116	-3493.632	392.8071
Race	0	(omitted)				
PovStat	17240.62	14843.2	1.16	0.250	-12389.72	46870.95
TIME_V1SCAN	-22.92398	11.28283	-2.03	0.046	-45.44618	-.4017731
w1BMI	904.6172	1155.226	0.78	0.436	-1401.954	3211.189
w1Creatinine	-12909.69	36751.85	-0.35	0.730	-90532.09	64712.72
w1USpecGrav	-832445.6	919810.5	-0.91	0.369	-2668460	1003569
w1BUN	928.6381	2034.699	0.46	0.650	-3137.011	4994.287
w1ALP	292.4341	306.1191	0.96	0.343	-318.6517	903.5199
w1UricAcid	-3741.979	5199.361	-0.72	0.474	-14124.28	6640.32
_cons	1473374	935849.1	1.57	0.120	-394648.2	3341396

127 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	81
		Average RVI	=	0.0811
		Largest FMI	=	0.5068
		Complete DF	=	69
DF adjustment: **Small sample**		DF: min	=	12.82
		avg	=	58.19
		max	=	66.27
Model F test: **Equal FMI**		F(11, 65.8)	=	3.42
Within VCE type: **OLS**		Prob > F	=	0.0009

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-18415.41	11929.87	-1.54	0.128	-42243.37	5412.553
Sex	64998.67	12564.09	5.17	0.000	39637.27	90360.06
w1Age	-161.9113	775.6265	-0.21	0.835	-1711.211	1387.388
Race	0	(omitted)				
PovStat	7751.06	11748.63	0.66	0.512	-15704.08	31206.2
TIME_V1SCAN	-14.85478	9.001631	-1.65	0.104	-32.83319	3.123638
w1BMI	663.8095	929.2111	0.71	0.478	-1194.115	2521.734
w1Creatinine	-37784.87	30972.52	-1.22	0.244	-104793.8	29224.01
w1USpecGrav	-403759.5	732607.1	-0.55	0.583	-1866725	1059206
w1BUN	-269.7982	1621.235	-0.17	0.868	-3511.857	2972.26
w1ALP	313.3372	243.6574	1.29	0.203	-173.2673	799.9416
w1UricAcid	-2981.091	4105.498	-0.73	0.470	-11178.89	5216.707
_cons	838704.1	744843.9	1.13	0.264	-648626.7	2326035

```
128 .
129 . save, replace
    file finaldata_imputed.dta saved

130 .
131 .
132 .
133 . //WHITES//
134 .
135 . use finaldata_imputed,clear

136 .
137 .
138 .
139 . //ANALYSIS A//
140 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates	Imputations =	5
Linear regression	Number of obs =	119
	Average RVI =	0.0149
	Largest FMI =	0.1389
	Complete DF =	107
DF adjustment: **Small sample**	DF: min =	66.13
	avg =	100.34
	max =	104.92
Model F test: **Equal FMI**	F(11, 104.9) =	10.61
Within VCE type: **OLS**	Prob > F =	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	24578.92	20029.88	1.23	0.223	-15137.32	64295.15
Sex	167158.9	21334.28	7.84	0.000	124838.9	209478.9
w1Age	-2164.252	1126.004	-1.92	0.057	-4396.967	68.46338
Race	0	(omitted)				
PovStat	-13535.84	18693.15	-0.72	0.471	-50601.86	23530.18
TIME_V1SCAN	-34.86922	12.89663	-2.70	0.008	-60.44186	-9.296588
w1BMI	2142.964	1293.448	1.66	0.101	-421.8419	4707.771
w1Creatinine	41198.01	52452.02	0.79	0.435	-63521.9	145917.9
w1USpecGrav	748485.5	1471217	0.51	0.612	-2169111	3666082
w1BUN	-114.9127	2343.713	-0.05	0.961	-4766.792	4536.967
w1ALP	191.0089	392.01	0.49	0.627	-586.2817	968.2996
w1UricAcid	-20547.99	7061.224	-2.91	0.004	-34550.03	-6545.953
_cons	302630.2	1485106	0.20	0.839	-2642555	3247815

```
141 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc
```

Multiple-imputation estimates	Imputations =	5
Linear regression	Number of obs =	119
	Average RVI =	0.0270
	Largest FMI =	0.2416
	Complete DF =	107
DF adjustment: **Small sample**	DF: min =	41.13
	avg =	97.46
	max =	104.62
Model F test: **Equal FMI**	F(11, 104.7) =	10.79
Within VCE type: **OLS**	Prob > F =	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	5070.154	10624.52	0.48	0.634	-15997.78	26138.09
Sex	86725.05	11369.11	7.63	0.000	64163.97	109286.1
w1Age	-1808.412	596.9346	-3.03	0.003	-2992.097	-624.7276
Race	0	(omitted)				
PovStat	-9975.379	9909.948	-1.01	0.316	-29626.21	9675.455
TIME_V1SCAN	-14.79372	6.838473	-2.16	0.033	-28.35429	-1.233151
w1BMI	1197.724	686.4137	1.74	0.084	-163.482	2558.93
w1Creatinine	24410.95	29336.18	0.83	0.410	-34828.83	83650.72
w1USpecGrav	188007.9	777217	0.24	0.809	-1353191	1729206
w1BUN	217.3541	1250.573	0.17	0.862	-2266.405	2701.113
w1ALP	192.6829	207.8134	0.93	0.356	-219.3903	604.7561
w1UricAcid	-9656.446	3745.994	-2.58	0.011	-17085.04	-2227.852
_cons	439629.3	784562.4	0.56	0.576	-1116155	1995414

142 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        119
                                           Average RVI     =     0.0032
                                           Largest FMI     =     0.0221
                                           Complete DF     =        107
DF adjustment:    Small sample             DF:    min      =     101.66
                                                  avg      =     104.56
                                                  max      =     105.04
Model F test:        Equal FMI             F(  11,  105.0) =       7.44
Within VCE type:          OLS              Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	15212.67	10166.35	1.50	0.138	-4945.28	35370.62
Sex	70580.7	10729.12	6.58	0.000	49306.13	91855.27
w1Age	-762.7681	571.2976	-1.34	0.185	-1895.541	370.0051
Race	0	(omitted)				
PovStat	-5831.36	9487.488	-0.61	0.540	-24643.37	12980.65
TIME_V1SCAN	-17.91945	6.541065	-2.74	0.007	-30.88917	-4.949727
w1BMI	932.0168	656.3088	1.42	0.159	-369.3526	2233.386
w1Creatinine	12641.57	25130.22	0.50	0.616	-37206.11	62489.26
w1USpecGrav	309469.9	744687.7	0.42	0.679	-1167168	1786108
w1BUN	-251.794	1168.675	-0.22	0.830	-2569.198	2065.61
w1ALP	64.30603	199.1414	0.32	0.747	-330.5596	459.1716
w1UricAcid	-9241.099	3579.301	-2.58	0.011	-16338.25	-2143.946
_cons	105269.3	751380	0.14	0.889	-1384637	1595176

143 .
144 . save, replace
    file **finaldata_imputed.dta** saved

```
145 .
146 . **INTERACTION BY Race**
147 .
148 .
149 . //ANALYSIS A//
150 . mi estimate: reg TOTALBRAIN c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU
```

Multiple-imputation estimates			Imputations	=	5	
Linear regression			Number of obs	=	200	
			Average RVI	=	0.0215	
			Largest FMI	=	0.2490	
			Complete DF	=	186	
DF adjustment:	**Small sample**		DF: min	=	49.98	
			avg	=	171.47	
			max	=	183.92	
Model F test:	**Equal FMI**		F(13, 183.5)	=	14.09	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**28229.4**	**18525.42**	**1.52**	**0.129**	**-8321.486**	**64780.29**
Race						
AfrAm	**58685.67**	**51910.42**	**1.13**	**0.260**	**-43739.78**	**161111.1**
Race#c.LnNFLw1						
AfrAm	**-60354.95**	**25088.56**	**-2.41**	**0.017**	**-109855.5**	**-10854.38**
Sex	**160655.2**	**16131.51**	**9.96**	**0.000**	**128803.1**	**192507.2**
w1Age	**-2016.208**	**871.8876**	**-2.31**	**0.022**	**-3736.416**	**-295.9995**
Race	**0**	(omitted)				
PovStat	**-358.5714**	**14571.27**	**-0.02**	**0.980**	**-29107.24**	**28390.09**
TIME_V1SCAN	**-30.85976**	**10.46893**	**-2.95**	**0.004**	**-51.51492**	**-10.20459**
w1BMI	**1883.611**	**1047.54**	**1.80**	**0.074**	**-183.1292**	**3950.351**
w1Creatinine	**-12992.27**	**37778.22**	**-0.34**	**0.732**	**-88872.96**	**62888.41**
w1USpecGrav	**-291962.4**	**1045401**	**-0.28**	**0.780**	**-2354484**	**1770559**
w1BUN	**503.0445**	**1865.482**	**0.27**	**0.788**	**-3179.365**	**4185.454**
w1ALP	**266.81**	**305.9661**	**0.87**	**0.384**	**-336.8483**	**870.4682**
w1UricAcid	**-13996.93**	**5398.682**	**-2.59**	**0.010**	**-24648.63**	**-3345.233**
_cons	**1337496**	**1056755**	**1.27**	**0.207**	**-747428**	**3422419**

```
151 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates			Imputations	=	5	
Linear regression			Number of obs	=	200	
			Average RVI	=	0.0154	
			Largest FMI	=	0.1879	
			Complete DF	=	186	
DF adjustment:	**Small sample**		DF: min	=	70.64	
			avg	=	173.79	
			max	=	183.84	
Model F test:	**Equal FMI**		F(13, 183.8)	=	15.23	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	7995.937	10165.56	0.79	0.433	-12060.89	28052.76
Race						
AfrAm	11443.72	28450.3	0.40	0.688	-44690.62	67578.07
Race#c.LnNFLw1						
AfrAm	-28307.27	13759.41	-2.06	0.041	-55454.81	-1159.72
Sex	80824.93	8813.123	9.17	0.000	63427.5	98222.37
w1Age	-1874.248	478.3922	-3.92	0.000	-2818.102	-930.3942
Race	0	(omitted)				
PovStat	-1112.342	7990.604	-0.14	0.889	-16877.42	14652.74
TIME_V1SCAN	-15.25207	5.743796	-2.66	0.009	-26.58455	-3.91958
w1BMI	1050.776	574.8868	1.83	0.069	-83.44818	2185
w1Creatinine	2679.409	20040.92	0.13	0.894	-37284.57	42643.39
w1USpecGrav	-307400.8	574432.6	-0.54	0.593	-1440753	825951.4
w1BUN	647.3477	1017.755	0.64	0.526	-1361.16	2655.856
w1ALP	195.4558	167.9743	1.16	0.246	-135.9536	526.8651
w1UricAcid	-6653.965	2959.696	-2.25	0.026	-12493.41	-814.5196
_cons	940001.7	580765.6	1.62	0.107	-205850	2085853

152 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        200
                                           Average RVI     =     0.0390
                                           Largest FMI     =     0.3813
                                           Complete DF     =        186
DF adjustment:    Small sample             DF:      min    =      26.49
                                                    avg    =     164.78
                                                    max    =     183.86
Model F test:        Equal FMI             F(  13,  182.6) =       9.28
Within VCE type:           OLS             Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	15838.69	9020.482	1.76	0.081	-1959.587	33636.97
Race						
AfrAm	40602.3	25341.15	1.60	0.111	-9405.667	90610.26
Race#c.LnNFLw1						
AfrAm	-27922.81	12229.6	-2.28	0.024	-52054	-3791.613
Sex	68007.78	7986.102	8.52	0.000	52215.2	83800.36
w1Age	-625.5086	425.3529	-1.47	0.143	-1464.785	213.7675
Race	0	(omitted)				
PovStat	-2458.836	7085.682	-0.35	0.729	-16438.82	11521.15
TIME_V1SCAN	-14.43593	5.092483	-2.83	0.005	-24.48357	-4.388285
w1BMI	779.6572	509.47	1.53	0.128	-225.5115	1784.826
w1Creatinine	-13822.33	19910.25	-0.69	0.494	-54711.59	27066.94
w1USpecGrav	-150721.3	510380	-0.30	0.768	-1157766	856323.7
w1BUN	35.16737	923.1166	0.04	0.970	-1789.377	1859.712
w1ALP	114.4467	148.6483	0.77	0.442	-178.8291	407.7224
w1UricAcid	-6181.187	2629.327	-2.35	0.020	-11369.15	-993.2254
_cons	561976.7	516078.8	1.09	0.278	-456322.3	1580276

```
153 .
154 .
155 . save, replace
    file finaldata_imputed.dta saved

156 .
157 .
158 . //ANALYSIS A//
159 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   200
                                             Average RVI   =   0.0277
                                             Largest FMI   =   0.2869
                                             Complete DF   =   187
DF adjustment: **Small sample**   DF: min   =   41.10
                                                      avg   =   170.29
                                                      max   =   184.94
Model F test: **Equal FMI**   F(12, 184.2)   =   14.32
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	2365.602	15260.25	0.16	0.877	-27741.22	32472.43
Sex	159206.2	16380.49	9.72	0.000	126856.6	191555.8
w1Age	-1993.358	883.0172	-2.26	0.025	-3735.464	-251.2517
Race	-61259.5	14290.93	-4.29	0.000	-89456.15	-33062.84
PovStat	457.5914	14755.48	0.03	0.975	-28653.52	29568.7
TIME_V1SCAN	-30.51276	10.61191	-2.88	0.005	-51.44966	-9.575869
w1BMI	2051.08	1058.531	1.94	0.054	-37.26856	4139.428
w1Creatinine	932.2128	38487.91	0.02	0.981	-76789.75	78654.18
w1USpecGrav	-125647.2	1056948	-0.12	0.906	-2210890	1959595
w1BUN	518.3901	1891.351	0.27	0.784	-3215.156	4251.936
w1ALP	245.5551	310.0559	0.79	0.429	-366.1602	857.2704
w1UricAcid	-15134.1	5447.991	-2.78	0.006	-25882.76	-4385.452
_cons	1273748	1068571	1.19	0.235	-834426.4	3381923

```
160 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   200
                                             Average RVI   =   0.0207
                                             Largest FMI   =   0.2203
                                             Complete DF   =   187
DF adjustment: **Small sample**   DF: min   =   58.67
                                                      avg   =   172.68
                                                      max   =   184.75
Model F test: **Equal FMI**   F(12, 184.5)   =   15.78
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-4133.553	8342.878	-0.50	0.621	-20593.28	12326.18
Sex	80145.46	8904.02	9.00	0.000	62566.91	97724.02
w1Age	-1863.661	483.1657	-3.86	0.000	-2816.923	-910.3998
Race	-44812.79	7792.995	-5.75	0.000	-60188.02	-29437.56
PovStat	-730.2637	8059.111	-0.09	0.928	-16629.98	15169.45
TIME_V1SCAN	-15.08895	5.799801	-2.60	0.010	-26.53179	-3.64612
w1BMI	1129.446	579.0366	1.95	0.053	-12.93899	2271.83
w1Creatinine	9203.449	20246.56	0.45	0.651	-31314.62	49721.52
w1USpecGrav	-229338.6	578055.9	-0.40	0.692	-1369796	911118.8
w1BUN	654.5124	1027.067	0.64	0.525	-1372.34	2681.365

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
w1ALP	185.507	169.5418	1.09	0.275	-148.9896	520.0036
w1UricAcid	-7186.731	2975.839	-2.42	0.017	-13057.89	-1315.571
_cons	926128	584540.1	1.58	0.115	-227127.6	2079384

161 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	200
		Average RVI	=	0.0445
		Largest FMI	=	0.4037
		Complete DF	=	187
DF adjustment:	Small sample	DF: min	=	24.14
		avg	=	164.10
		max	=	184.92
Model F test:	Equal FMI	F(12, 183.0)	=	9.36
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	3872.549	7405.028	0.52	0.602	-10736.76	18481.86
Sex	67338.32	8097.901	8.32	0.000	51319.68	83356.95
w1Age	-614.7976	429.3068	-1.43	0.154	-1461.807	232.2116
Race	-14888.75	6964.318	-2.14	0.034	-28631.39	-1146.106
PovStat	-2080.677	7162.85	-0.29	0.772	-16212.36	12051
TIME_V1SCAN	-14.27512	5.153134	-2.77	0.006	-24.4422	-4.108038
w1BMI	856.9631	513.7077	1.67	0.097	-156.5184	1870.445
w1Creatinine	-7377.307	20119.93	-0.37	0.717	-48890.3	34135.69
w1USpecGrav	-73890.43	514497.2	-0.14	0.886	-1088997	941215.9
w1BUN	42.32328	934.6451	0.05	0.964	-1805.126	1889.772
w1ALP	104.5701	150.3746	0.70	0.488	-192.104	401.2442
w1UricAcid	-6707.748	2645.623	-2.54	0.012	-11927.52	-1487.972
_cons	519146	520385.5	1.00	0.320	-507589.6	1545882

162 .
163 . save, replace
    file **finaldata_imputed.dta** saved

164 .
165 . ***********MODEL 5: MODEL2+OXIDATIVE STRESS******
166 .
167 . //Overall//
168 .
169 . use finaldata_imputed,clear

170 .
171 .
172 . //ANALYSIS A//
173 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	179
		Average RVI	=	0.0125
		Largest FMI	=	0.1063
		Complete DF	=	168
DF adjustment:	Small sample	DF: min	=	108.38
		avg	=	159.25
		max	=	165.93
Model F test:	Equal FMI	F(10, 165.8)	=	14.02
Within VCE type:	OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-2779.111	17176.94	-0.16	0.872	-36694.58	31136.36
Sex	139676.5	14209.93	9.83	0.000	111619.9	167733
w1Age	-2287.513	938.798	-2.44	0.016	-4141.052	-433.9744
Race	-65204.13	16574.32	-3.93	0.000	-97941.41	-32466.85
PovStat	-1857.318	16088.83	-0.12	0.908	-33622.83	29908.2
TIME_V1SCAN	-19.84112	11.78951	-1.68	0.094	-43.11851	3.436271
w1BMI	663.6866	1158.842	0.57	0.568	-1624.301	2951.675
w1TotalD	785.0093	816.4853	0.96	0.338	-833.3427	2403.361
w1Albumin	-5145.254	27481.76	-0.19	0.852	-59404.25	49113.74
w1EosinPct	-2425.682	3533.221	-0.69	0.493	-9402.651	4551.286
_cons	1181464	153605.8	7.69	0.000	878184.3	1484745

174 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sample_fin

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   179
                                                 Average RVI   =   0.0072
                                                 Largest FMI   =   0.0643
                                                 Complete DF   =   168
DF adjustment: **Small sample**   DF: min   =   135.64
                                                          avg   =   162.53
                                                          max   =   165.98
Model F test: **Equal FMI**   F(10, 165.9) =   15.85
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-4428.886	9213.59	-0.48	0.631	-22620.31	13762.54
Sex	71394.66	7625.658	9.36	0.000	56338.64	86450.68
w1Age	-1950.052	504.1572	-3.87	0.000	-2945.441	-954.6634
Race	-47412.05	8853.027	-5.36	0.000	-64894.32	-29929.77
PovStat	-2680.073	8639.521	-0.31	0.757	-19737.67	14377.52
TIME_V1SCAN	-7.086875	6.328869	-1.12	0.264	-19.58251	5.408762
w1BMI	588.946	622.3618	0.95	0.345	-639.8234	1817.715
w1TotalD	264.2693	429.4673	0.62	0.539	-585.0484	1113.587
w1Albumin	3124.707	14761.92	0.21	0.833	-26020.63	32270.05
w1EosinPct	409.8111	1892.812	0.22	0.829	-3327.582	4147.204
_cons	687814.1	82464.12	8.34	0.000	524998.5	850629.7

175 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sample_fin

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   179
                                                 Average RVI   =   0.0143
                                                 Largest FMI   =   0.1145
                                                 Complete DF   =   168
DF adjustment: **Small sample**   DF: min   =   103.40
                                                          avg   =   158.28
                                                          max   =   165.88
Model F test: **Equal FMI**   F(10, 165.8) =   9.50
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	43.59935	8336.053	0.01	0.996	-16416.11	16503.31
Sex	57111.78	6897.494	8.28	0.000	43492.83	70730.73
w1Age	-733.86	455.3875	-1.61	0.109	-1632.972	165.2524
Race	-14939.33	8058.579	-1.85	0.066	-30858.71	980.044
PovStat	-3870.435	7802.985	-0.50	0.621	-19276.59	11535.72
TIME_V1SCAN	-10.59031	5.717619	-1.85	0.066	-21.87931	.6987009
w1BMI	183.462	562.0921	0.33	0.745	-926.3261	1293.25
w1TotalD	499.862	397.5201	1.26	0.211	-288.4892	1288.213
w1Albumin	-243.924	13326.39	-0.02	0.985	-26555.13	26067.28
w1EosinPct	-2059.328	1715.73	-1.20	0.232	-5447.513	1328.858
_cons	446903.5	74502.92	6.00	0.000	299803.6	594003.5

```
176 .
177 . save, replace
    file finaldata_imputed.dta saved

178 .
179 .
180 . //AFRICAN-AMERICAN//
181 .
182 .
183 . use finaldata_imputed,clear

184 .
185 .
186 . //ANALYSIS A//
187 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct if  Ra
```

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         81
                                           Average RVI      =     0.0401
                                           Largest FMI      =     0.2493
                                           Complete DF      =         71
DF adjustment:    Small sample             DF:     min      =      31.89
                                                   avg      =      63.53
                                                   max      =      68.51
Model F test:        Equal FMI             F(   9,   68.6)  =       5.44
Within VCE type:          OLS              Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-38883.17	25550.38	-1.52	0.133	-89864.61	12098.27
Sex	116809.7	21775.72	5.36	0.000	73339.87	160279.4
w1Age	-1794.824	1528.272	-1.17	0.245	-4847.118	1257.469
Race	0	(omitted)				
PovStat	29692.2	25328.36	1.17	0.245	-20848.75	80233.16
TIME_V1SCAN	-22.48568	20.22707	-1.11	0.270	-62.86368	17.89231
w1BMI	1057.483	1926.002	0.55	0.585	-2786.584	4901.549
w1TotalD	2445.271	1749.511	1.40	0.172	-1118.852	6009.394
w1Albumin	31058.65	39364.95	0.79	0.433	-47511.18	109628.5
w1EosinPct	3038.338	6027.052	0.50	0.616	-8986.838	15063.51
_cons	885382	213695.1	4.14	0.000	458753.3	1312011

188 .
189 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==2

```
Multiple-imputation estimates              Imputations      =           5
Linear regression                          Number of obs    =          81
                                           Average RVI      =      0.0308
                                           Largest FMI      =      0.2207
                                           Complete DF      =          71
DF adjustment:   Small sample              DF:    min       =       35.55
                                                  avg       =       64.68
                                                  max       =       68.75
Model F test:        Equal FMI             F(   9,   68.7)  =        5.46
Within VCE type:          OLS              Prob > F         =      0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-20658.03	14618.16	-1.41	0.162	-49823.4	8507.339
Sex	57827.55	12418.1	4.66	0.000	33045.95	82609.15
w1Age	-1757.307	869.7334	-2.02	0.047	-3493.411	-21.20291
Race	0	(omitted)				
PovStat	15483.32	14491.22	1.07	0.289	-13430.05	44396.7
TIME_V1SCAN	-14.44713	11.5624	-1.25	0.216	-37.52412	8.629865
w1BMI	780.3921	1099.756	0.71	0.480	-1414.097	2974.881
w1TotalD	1001.387	987.3604	1.01	0.317	-1001.944	3004.719
w1Albumin	17079.28	22457.73	0.76	0.450	-27732.63	61891.2
w1EosinPct	3026.167	3450.29	0.88	0.384	-3857.426	9909.76
_cons	540912.2	121894.7	4.44	0.000	297636.8	784187.6

190 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==2

```
Multiple-imputation estimates              Imputations      =           5
Linear regression                          Number of obs    =          81
                                           Average RVI      =      0.0344
                                           Largest FMI      =      0.1857
                                           Complete DF      =          71
DF adjustment:   Small sample              DF:    min       =       40.61
                                                  avg       =       64.51
                                                  max       =       68.48
Model F test:        Equal FMI             F(   9,   68.7)  =        3.98
Within VCE type:          OLS              Prob > F         =      0.0004
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-17015.66	11835	-1.44	0.155	-40631.15	6599.827
Sex	47141.13	10089.31	4.67	0.000	26999.09	67283.16
w1Age	-516.874	705.3349	-0.73	0.466	-1925.237	891.4887
Race	0	(omitted)				
PovStat	8077.908	11722.04	0.69	0.493	-15312.34	31468.16
TIME_V1SCAN	-7.46661	9.335898	-0.80	0.427	-26.09971	11.16649
w1BMI	193.3534	891.6077	0.22	0.829	-1586.192	1972.899
w1TotalD	1270.667	782.9381	1.62	0.112	-310.9699	2852.305
w1Albumin	12173.89	18260.56	0.67	0.507	-24277.89	48625.68
w1EosinPct	281.4239	2790.414	0.10	0.920	-5286.055	5848.903
_cons	359706	98789.15	3.64	0.001	162498.5	556913.5

```
191 .
192 .
193 . save, replace
    file finaldata_imputed.dta saved

194 .
195 .
196 .
197 . //WHITES//
198 .
199 . use finaldata_imputed,clear

200 .
201 .
202 .
203 . //ANALYSIS A//
204 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct if  Ra
```

Multiple-imputation estimates					Imputations	=	5
Linear regression					Number of obs	=	119
					Average RVI	=	0.0113
					Largest FMI	=	0.0894
					Complete DF	=	109
DF adjustment:	**Small sample**				DF: min	=	83.41
					avg	=	104.28
					max	=	107.00
Model F test:	**Equal FMI**				F(9, 106.9)	=	11.36
Within VCE type:	**OLS**				Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**22955.02**	**20751.76**	**1.11**	**0.271**	**-18185.72**	**64095.77**
Sex	**152474.2**	**17479.98**	**8.72**	**0.000**	**117822.1**	**187126.3**
w1Age	**-2510.202**	**1125.001**	**-2.23**	**0.028**	**-4740.397**	**-280.0075**
Race	**0**	**(omitted)**				
PovStat	**-16205**	**19143.73**	**-0.85**	**0.399**	**-54155.49**	**21745.5**
TIME_V1SCAN	**-30.19302**	**13.29947**	**-2.27**	**0.025**	**-56.55837**	**-3.827671**
w1BMI	**344.7047**	**1308.637**	**0.26**	**0.793**	**-2249.544**	**2938.953**
w1TotalD	**226.9509**	**899.6593**	**0.25**	**0.801**	**-1562.305**	**2016.206**
w1Albumin	**-24284.87**	**35344.55**	**-0.69**	**0.494**	**-94353.07**	**45783.34**
w1EosinPct	**-3730.776**	**4163.59**	**-0.90**	**0.372**	**-11986.61**	**4525.057**
_cons	**1201027**	**188210.7**	**6.38**	**0.000**	**827921.4**	**1574133**

```
205 .
206 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct if  Race==1
```

Multiple-imputation estimates					Imputations	=	5
Linear regression					Number of obs	=	119
					Average RVI	=	0.0094
					Largest FMI	=	0.0794
					Complete DF	=	109
DF adjustment:	**Small sample**				DF: min	=	86.83
					avg	=	104.74
					max	=	107.01
Model F test:	**Equal FMI**				F(9, 107.0)	=	11.91
Within VCE type:	**OLS**				Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	6482.82	10938.71	0.59	0.555	-15202.95	28168.59
Sex	79904.92	9220.325	8.67	0.000	61626.66	98183.18
w1Age	-1944.643	593.3732	-3.28	0.001	-3120.941	-768.3446
Race	0	(omitted)				
PovStat	-11488.95	10097.16	-1.14	0.258	-31505.53	8527.621
TIME_V1SCAN	-12.42213	7.013772	-1.77	0.079	-26.32643	1.482165
w1BMI	417.9674	690.4356	0.61	0.546	-950.7643	1786.699
w1TotalD	110.2474	472.1522	0.23	0.816	-828.232	1048.727
w1Albumin	-7578.787	18639.43	-0.41	0.685	-44530.02	29372.45
w1EosinPct	-503.5656	2190.183	-0.23	0.819	-4845.95	3838.819
_cons	683045.6	99271.99	6.88	0.000	486250.7	879840.6

207 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   119
                                               Average RVI   =   0.0160
                                               Largest FMI   =   0.1284
                                               Complete DF   =   109
DF adjustment: **Small sample**   DF: min   =   70.37
                                                        avg   =   102.85
                                                        max   =   106.98
Model F test: **Equal FMI**   F(9, 106.8) =   7.91
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	13599.41	10470.57	1.30	0.197	-7159.928	34358.75
Sex	61641.27	8806.013	7.00	0.000	44184.22	79098.32
w1Age	-905.3641	566.7213	-1.60	0.113	-2028.836	218.1074
Race	0	(omitted)				
PovStat	-6941.183	9642.785	-0.72	0.473	-26057.09	12174.73
TIME_V1SCAN	-15.46828	6.701522	-2.31	0.023	-28.75381	-2.182745
w1BMI	209.6811	659.3608	0.32	0.751	-1097.453	1516.815
w1TotalD	157.5286	462.1254	0.34	0.734	-764.0655	1079.123
w1Albumin	-4408.769	17809.02	-0.25	0.805	-39714.42	30896.88
w1EosinPct	-2486.316	2097.855	-1.19	0.239	-6646.158	1673.527
_cons	445565	94800.34	4.70	0.000	257633.9	633496.1

208 .
209 . save, replace
    file **finaldata_imputed.dta** saved

210 .
211 .
212 . **********INTERACTION BY Race**************
213 .

214 .
215 .
216 . //ANALYSIS A//
217 . mi estimate: reg TOTALBRAIN c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPc

```
    Multiple-imputation estimates              Imputations      =          5
    Linear regression                          Number of obs    =        179
                                               Average RVI      =     0.0164
                                               Largest FMI      =     0.1558
                                               Complete DF      =        167
    DF adjustment:    Small sample             DF:     min      =      80.86
                                                       avg      =     157.18
                                                       max      =     164.91
    Model F test:        Equal FMI             F( 11,  164.7)   =      13.64
    Within VCE type:          OLS              Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	25188.86	20318.7	1.24	0.217	-14931.25	65308.96
Race						
AfrAm	63569.71	54368.52	1.17	0.244	-43785.19	170924.6
Race#c.LnNFLw1						
AfrAm	-65390.83	26289.04	-2.49	0.014	-117297.7	-13483.95
Sex	138602.8	14004.33	9.90	0.000	110950.9	166254.7
w1Age	-2154.685	925.9735	-2.33	0.021	-3982.979	-326.3911
Race	0	(omitted)				
PovStat	-2459.86	15853.66	-0.16	0.877	-33762.67	28842.95
TIME_V1SCAN	-21.29882	11.63585	-1.83	0.069	-44.27423	1.676583
w1BMI	471.1598	1143.952	0.41	0.681	-1787.531	2729.85
w1TotalD	700.9735	826.1941	0.85	0.399	-942.9379	2344.885
w1Albumin	-602.6388	27129.12	-0.02	0.982	-54167.81	52962.54
w1EosinPct	-2534.914	3480.428	-0.73	0.467	-9407.965	4338.137
_cons	1043828	150335.7	6.94	0.000	746992	1340665

218 .
219 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

```
    Multiple-imputation estimates              Imputations      =          5
    Linear regression                          Number of obs    =        179
                                               Average RVI      =     0.0104
                                               Largest FMI      =     0.1050
                                               Complete DF      =        167
    DF adjustment:    Small sample             DF:     min      =     108.71
                                                       avg      =     159.92
                                                       max      =     164.98
    Model F test:        Equal FMI             F( 11,  164.9)   =      15.21
    Within VCE type:          OLS              Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	9550.001	10929.87	0.87	0.384	-12030.96	31130.96
Race						
AfrAm	16947.33	29231.86	0.58	0.563	-40771.18	74665.84
Race#c.LnNFLw1						
AfrAm	-32682.11	14151.39	-2.31	0.022	-60623.36	-4740.865
Sex	70858.08	7533.398	9.41	0.000	55983.53	85732.63

w1Age	-1883.668	498.5511	-3.78	0.000	-2868.03	-899.3048
Race	0	(omitted)				
PovStat	-2981.499	8533.561	-0.35	0.727	-19830.72	13867.72
TIME_V1SCAN	-7.815753	6.260659	-1.25	0.214	-20.17741	4.545901
w1BMI	492.7056	615.9102	0.80	0.425	-723.3805	1708.792
w1TotalD	222.1268	433.4874	0.51	0.609	-637.0564	1081.31
w1Albumin	5395.427	14608.88	0.37	0.712	-23449.06	34239.91
w1EosinPct	355.2043	1869.059	0.19	0.850	-3335.458	4045.867
_cons	604203.4	80912.9	7.47	0.000	444443.6	763963.3

220 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   179
                                       Average RVI   =   0.0174
                                       Largest FMI   =   0.1557
                                       Complete DF   =   167
DF adjustment: **Small sample**   DF: min   =   80.86
                                               avg   =   156.89
                                               max   =   164.88
Model F test: **Equal FMI**   F(11, 164.7) =   9.24
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	12092.58	9896.528	1.22	0.224	-7448.814	31633.97
Race						
AfrAm	40543.77	26494.97	1.53	0.128	-11774.18	92861.73
Race#c.LnNFLw1						
AfrAm	-28173.19	12803.73	-2.20	0.029	-53454.02	-2892.359
Sex	56649.13	6824.455	8.30	0.000	43173.72	70124.54
w1Age	-676.625	450.8895	-1.50	0.135	-1566.893	213.6425
Race	0	(omitted)				
PovStat	-4129.678	7718.637	-0.54	0.593	-19370.08	11110.72
TIME_V1SCAN	-11.21791	5.66422	-1.98	0.049	-22.40214	-.0336846
w1BMI	100.5366	557.0006	0.18	0.857	-999.2472	1200.32
w1TotalD	463.8435	402.1342	1.15	0.252	-336.298	1263.985
w1Albumin	1712.736	13206.17	0.13	0.897	-24362.28	27787.75
w1EosinPct	-2106.361	1696.585	-1.24	0.216	-5456.896	1244.174
_cons	400753.9	73198.62	5.47	0.000	256223	545284.7

221 .
222 . save, replace
    file **finaldata_imputed.dta** saved

223 .
224 .

```
225 .
226 . ***********MODEL 6: MODEL 2+lifestyle/health-related factors*******
227 .
228 .
229 . //Overall//
230 .
231 . use finaldata_imputed,clear

232 .
233 .
234 . //ANALYSIS A//
235 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   200
                                                 Average RVI   =   0.0017
                                                 Largest FMI   =   0.0173
                                                 Complete DF   =   190
DF adjustment: **Small sample**   DF: min   =   182.47
                                                         avg   =   187.45
                                                         max   =   188.02
Model F test: **Equal FMI**   F(9, 188.0) =   18.73
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	10452.07	15491.43	0.67	0.501	-20107.31	41011.45
Sex	137538.5	13062.17	10.53	0.000	111771.3	163305.8
w1Age	-2628.838	855.7072	-3.07	0.002	-4316.86	-940.8166
Race	-64530.84	13705.46	-4.71	0.000	-91567.15	-37494.54
PovStat	4538.239	15066.43	0.30	0.764	-25182.73	34259.2
TIME_V1SCAN	-31.40891	10.6726	-2.94	0.004	-52.46234	-10.35548
w1BMI	1075.099	997.4789	1.08	0.282	-892.5922	3042.789
w1currdrugs	1629.213	16442.37	0.10	0.921	-30812.41	34070.84
w1SRH	16074.69	8563.91	1.88	0.062	-819.0029	32968.38
_cons	1127703	69159.69	16.31	0.000	991273.8	1264131

```
236 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   200
                                                 Average RVI   =   0.0035
                                                 Largest FMI   =   0.0335
                                                 Complete DF   =   190
DF adjustment: **Small sample**   DF: min   =   173.54
                                                         avg   =   186.47
                                                         max   =   188.02
Model F test: **Equal FMI**   F(9, 188.0) =   21.29
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	2522.062	8388.166	0.30	0.764	-14025.05	19069.18
Sex	71014.54	7069.853	10.04	0.000	57068.11	84960.97
w1Age	-2166.548	463.3589	-4.68	0.000	-3080.604	-1252.491
Race	-46018.23	7421.367	-6.20	0.000	-60658.21	-31378.26
PovStat	1580.896	8155.375	0.19	0.847	-14506.91	17668.7
TIME_V1SCAN	-15.67299	5.778159	-2.71	0.007	-27.07138	-4.274605
w1BMI	648.5945	540.0495	1.20	0.231	-416.7459	1713.935
w1currdrugs	-4090.032	8971.541	-0.46	0.649	-21797.42	13617.35
w1SRH	10183.8	4635.555	2.20	0.029	1039.41	19328.18
_cons	690544.9	37440.85	18.44	0.000	616686.5	764403.2

_____|_____

237 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   200
                                             Average RVI   =   0.0017
                                             Largest FMI   =   0.0098
                                             Complete DF   =   190
    DF adjustment: **Small sample**   DF: min   =   185.46
                                                      avg   =   187.64
                                                      max   =   187.98
    Model F test: **Equal FMI**   F(9, 188.0)   =   12.06
    Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**4939.814**	**7546.122**	**0.65**	**0.514**	**-9946.233**	**19825.86**
Sex	**56388.29**	**6360.83**	**8.86**	**0.000**	**43840.5**	**68936.08**
w1Age	**-827.2511**	**416.7034**	**-1.99**	**0.049**	**-1649.268**	**-5.234118**
Race	**-17466.76**	**6673.664**	**-2.62**	**0.010**	**-30631.69**	**-4301.829**
PovStat	**-639.1881**	**7337.05**	**-0.09**	**0.931**	**-15112.73**	**13834.36**
TIME_V1SCAN	**-14.52493**	**5.201716**	**-2.79**	**0.006**	**-24.7863**	**-4.263559**
w1BMI	**437.7452**	**485.6638**	**0.90**	**0.369**	**-520.3062**	**1395.797**
w1currdrugs	**7898.218**	**7976.059**	**0.99**	**0.323**	**-7837.251**	**23633.69**
w1SRH	**4619.652**	**4172.089**	**1.11**	**0.270**	**-3610.53**	**12849.83**
_cons	**435077.5**	**33678.25**	**12.92**	**0.000**	**368641.5**	**501513.4**

238 .
239 . save, replace
    file **finaldata_imputed.dta** saved

240 .
241 .
242 . //AFRICAN-AMERICAN//
243 .
244 . use finaldata_imputed,clear

245 .
246 .
247 . //ANALYSIS A//
248 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   81
                                             Average RVI   =   0.0018
                                             Largest FMI   =   0.0167
                                             Complete DF   =   72
    DF adjustment: **Small sample**   DF: min   =   68.71
                                                      avg   =   69.91
                                                      max   =   70.08
    Model F test: **Equal FMI**   F(8,   70.1)   =   6.11
    Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-32659.45	26576.48	-1.23	0.223	-85664.49	20345.58
Sex	117085.8	21309.89	5.49	0.000	74585.23	159586.3
w1Age	-1554.024	1513.703	-1.03	0.308	-4572.984	1464.936
Race	0	(omitted)				
PovStat	28238.39	25331.44	1.11	0.269	-22282.8	78759.58
TIME_V1SCAN	-32.15693	19.06074	-1.69	0.096	-70.17162	5.857765
w1BMI	173.3332	1865.866	0.09	0.926	-3547.951	3894.617
w1currdrugs	6357.423	23870.34	0.27	0.791	-41266.18	53981.02
w1SRH	16954.99	13775.76	1.23	0.223	-10519.37	44429.36
_cons	1051746	98903.93	10.63	0.000	854491.5	1249001

249 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

```
Multiple-imputation estimates            Imputations     =          5
Linear regression                        Number of obs   =         81
                                         Average RVI     =     0.0014
                                         Largest FMI     =     0.0102
                                         Complete DF     =         72
DF adjustment:    Small sample           DF:     min     =      69.33
                                                 avg     =      69.96
                                                 max     =      70.07
Model F test:        Equal FMI           F(  8,   70.1)  =       6.47
Within VCE type:           OLS           Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-14345.49	15039.08	-0.95	0.343	-44340.14	15649.16
Sex	58655.78	12056.41	4.87	0.000	34610.44	82701.12
w1Age	-1815.479	856.4866	-2.12	0.038	-3523.678	-107.2798
Race	0	(omitted)				
PovStat	14356.66	14331.54	1.00	0.320	-14226.23	42939.56
TIME_V1SCAN	-18.30422	10.7882	-1.70	0.094	-39.82047	3.212022
w1BMI	238.623	1055.675	0.23	0.822	-1866.815	2344.061
w1currdrugs	-6617.126	13462.53	-0.49	0.625	-33471.84	20237.58
w1SRH	12285.08	7795.145	1.58	0.120	-3261.632	27831.79
_cons	628109.3	55957.08	11.22	0.000	516508.2	739710.4

250 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

```
Multiple-imputation estimates            Imputations     =          5
Linear regression                        Number of obs   =         81
                                         Average RVI     =     0.0046
                                         Largest FMI     =     0.0317
                                         Complete DF     =         72
DF adjustment:    Small sample           DF:     min     =      66.98
                                                 avg     =      69.58
                                                 max     =      70.02
Model F test:        Equal FMI           F(  8,   70.1)  =       4.33
Within VCE type:           OLS           Prob > F        =     0.0003
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-17190.09	12351.55	-1.39	0.168	-41826.66	7446.48
Sex	46716.33	9887.111	4.72	0.000	26997	66435.65
w1Age	-259.0766	703.2345	-0.37	0.714	-1661.725	1143.572
Race	0	(omitted)				
PovStat	7898.248	11754.34	0.67	0.504	-15545.3	31341.79
TIME_V1SCAN	-12.64985	8.845899	-1.43	0.157	-30.29262	4.992929
w1BMI	-113.0788	865.5169	-0.13	0.896	-1839.288	1613.131
w1currdrugs	11932.38	11149.37	1.07	0.288	-10321.94	34186.71
w1SRH	4376.009	6390.678	0.68	0.496	-8369.759	17121.78
_cons	429244.1	45904.68	9.35	0.000	337688.3	520799.9

```
251 .
252 .
253 . save, replace
    file finaldata_imputed.dta saved

254 .
255 .
256 .
257 . //WHITES//
258 .
259 . use finaldata_imputed,clear

260 .
261 .
262 . //ANALYSIS A//
263 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH  if Race==1
```

```
Multiple-imputation estimates          Imputations       =          5
Linear regression                      Number of obs     =        119
                                       Average RVI       =     0.0057
                                       Largest FMI       =     0.0458
                                       Complete DF       =        110
DF adjustment:    Small sample         DF:     min       =      98.43
                                               avg       =     106.83
                                               max       =     108.03
Model F test:       Equal FMI          F(   8,  108.0)   =      13.21
Within VCE type:          OLS          Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	33554.3	19858.73	1.69	0.094	-5809.386	72917.98
Sex	150452.3	16888.36	8.91	0.000	116975.9	183928.7
w1Age	-2631.559	1126.883	-2.34	0.021	-4865.242	-397.877
Race	0	(omitted)				
PovStat	-9784.57	19879.29	-0.49	0.624	-49188.67	29619.53
TIME_V1SCAN	-33.86791	13.35995	-2.54	0.013	-60.35008	-7.385734
w1BMI	1124.929	1228.353	0.92	0.362	-1309.92	3559.777
w1currdrugs	15317.64	23856.08	0.64	0.522	-32021.41	62656.69
w1SRH	14773.94	11424.3	1.29	0.199	-7870.916	37418.8
_cons	1018018	90372.36	11.26	0.000	838876.2	1197160

264 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==1

```
Multiple-imputation estimates          Imputations      =           5
Linear regression                      Number of obs    =         119
                                       Average RVI      =      0.0053
                                       Largest FMI      =      0.0415
                                       Complete DF      =         110
DF adjustment:    Small sample         DF:      min     =       99.66
                                                avg     =      106.96
                                                max     =      108.03
Model F test:        Equal FMI         F(   8,  108.0)  =       14.15
Within VCE type:          OLS          Prob > F         =      0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	10762.02	10420.11	1.03	0.304	-9892.654	31416.69
Sex	79846.11	8859.758	9.01	0.000	62284.15	97408.07
w1Age	-1982.41	591.2507	-3.35	0.001	-3154.377	-810.4436
Race	0	(omitted)				
PovStat	-7521.007	10429.65	-0.72	0.472	-28194.35	13152.33
TIME_V1SCAN	-14.75935	7.010057	-2.11	0.038	-28.65478	-.863923
w1BMI	718.2054	644.3826	1.11	0.268	-559.0919	1995.503
w1currdrugs	8166.759	12489.19	0.65	0.515	-16612.46	32945.98
w1SRH	7808.437	5993.528	1.30	0.195	-4071.733	19688.61
_cons	616567.1	47397.65	13.01	0.000	522613.2	710520.9

265 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==1

```
Multiple-imputation estimates          Imputations      =           5
Linear regression                      Number of obs    =         119
                                       Average RVI      =      0.0077
                                       Largest FMI      =      0.0544
                                       Complete DF      =         110
DF adjustment:    Small sample         DF:      min     =       95.81
                                                avg     =      106.42
                                                max     =      108.00
Model F test:        Equal FMI         F(   8,  108.0)  =        9.14
Within VCE type:          OLS          Prob > F         =      0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	17320.46	10029.18	1.73	0.087	-2559.552	37200.48
Sex	62101.46	8525.201	7.28	0.000	45202.56	79000.37
w1Age	-915.9004	568.6588	-1.61	0.110	-2043.08	211.2795
Race	0	(omitted)				
PovStat	-4806.508	10034.7	-0.48	0.633	-24697.06	15084.04
TIME_V1SCAN	-17.21862	6.753637	-2.55	0.012	-30.60631	-3.830923
w1BMI	515.1626	620.0113	0.83	0.408	-713.8323	1744.158
w1currdrugs	12344.58	12090.75	1.02	0.310	-11655.96	36345.12
w1SRH	5271.722	5766.467	0.91	0.363	-6158.412	16701.86
_cons	393519.5	45658.63	8.62	0.000	303009.2	484029.8

266 .
267 .
268 . save, replace
    file **finaldata_imputed.dta** saved

269 .
270 . ******************INTERACTION BY Race**********************
271 .
272 .
273 . //ANALYSIS A//
274 . mi estimate: reg TOTALBRAIN c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	200
	Average RVI	=	0.0013
	Largest FMI	=	0.0133
	Complete DF	=	189
DF adjustment: **Small sample**	DF: min	=	183.19
	avg	=	186.64
	max	=	187.03
Model F test: **Equal FMI**	F(10, 187.0)	=	17.93
Within VCE type: **OLS**	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	35151.23	18273.16	1.92	0.056	-896.8239	71199.28
Race						
AfrAm	56300.59	50796.04	1.11	0.269	-43906.36	156507.5
Race#c.LnNFLw1						
AfrAm	-61310.85	24846.56	-2.47	0.015	-110326.5	-12295.2
Sex	137049.6	12892.58	10.63	0.000	111616	162483.2
w1Age	-2530.431	845.355	-2.99	0.003	-4198.087	-862.7743
Race	0	(omitted)				
PovStat	4141.716	14869.46	0.28	0.781	-25191.71	33475.14
TIME_V1SCAN	-32.26795	10.5401	-3.06	0.003	-53.06077	-11.47513
w1BMI	971.0294	985.2524	0.99	0.326	-972.609	2914.668
w1currdrugs	6830.452	16338.85	0.42	0.676	-25406.07	39066.97
w1SRH	15457.63	8456.011	1.83	0.069	-1223.809	32139.08
_cons	1012588	68676.69	14.74	0.000	877107.2	1148069

275 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	200
	Average RVI	=	0.0021
	Largest FMI	=	0.0230
	Complete DF	=	189
DF adjustment: **Small sample**	DF: min	=	178.71
	avg	=	186.22
	max	=	187.03
Model F test: **Equal FMI**	F(10, 187.0)	=	20.00
Within VCE type: **OLS**	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	14059.82	9930.62	1.42	0.158	-5530.619	33650.26
Race						
AfrAm	10425.45	27607.23	0.38	0.706	-44036.21	64887.11
Race#c.LnNFLw1						
AfrAm	-28639.45	13504.56	-2.12	0.035	-55280.39	-1998.52
Sex	70785.96	7006.437	10.10	0.000	56964.15	84607.76
w1Age	-2120.617	459.5489	-4.61	0.000	-3027.186	-1214.049
Race	0	(omitted)				
PovStat	1395.751	8081.432	0.17	0.863	-14546.73	17338.24
TIME_V1SCAN	-16.07486	5.727597	-2.81	0.006	-27.37386	-4.775851
w1BMI	599.9256	535.5192	1.12	0.264	-456.5115	1656.363
w1currdrugs	-1665.69	8922.865	-0.19	0.852	-19273.42	15942.04
w1SRH	9895.667	4595.165	2.15	0.033	830.6497	18960.68
_cons	620902.6	37328.37	16.63	0.000	547263.4	694541.7

276 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

```
Multiple-imputation estimates                Imputations      =           5
Linear regression                            Number of obs    =         200
                                             Average RVI      =      0.0029
                                             Largest FMI      =      0.0167
                                             Complete DF      =         189
DF adjustment:    Small sample               DF:      min     =      181.77
                                                      avg     =      186.20
                                                      max     =      186.93
Model F test:     Equal FMI                  F(  10,  187.0)  =       11.66
Within VCE type:      OLS                    Prob > F         =      0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16499.52	8920.919	1.85	0.066	-1099.444	34098.49
Race						
AfrAm	39085.1	24781.66	1.58	0.116	-9802.993	87973.19
Race#c.LnNFLw1						
AfrAm	-28695.54	12127.27	-2.37	0.019	-52619.85	-4771.231
Sex	56159.7	6286.236	8.93	0.000	43758.62	68560.79
w1Age	-781.1497	412.3049	-1.89	0.060	-1594.521	32.22161
Race	0	(omitted)				
PovStat	-824.8997	7250.598	-0.11	0.910	-15128.42	13478.62
TIME_V1SCAN	-14.92626	5.146365	-2.90	0.004	-25.07892	-4.773604
w1BMI	389.1083	480.4097	0.81	0.419	-558.614	1336.831
w1currdrugs	10339.28	7978.46	1.30	0.197	-5403.02	26081.59
w1SRH	4330.769	4125.701	1.05	0.295	-3808.231	12469.77
_cons	393930.2	33516.41	11.75	0.000	327810.1	460050.4

277 .
278 . save, replace
    file **finaldata_imputed.dta** saved

279 .
280 .
281 . ////////////////////////////////////LnNFLw3 exposure///
   >
282 .
283 . ********************LnNFLw3, MODELS 1 AND 2********************
284 .
285 . *******************AFRICAN-AMERICAN***
286 .
287 . **Model 1**
288 .
289 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

290 .
291 .
292 . //ANALYSIS A//
293 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if Race==2,beta
    note: **Race** omitted because of collinearity.

Source	SS	df	MS		
Model	4.1954e+11	5	8.3908e+10	Number of obs	= 90
Residual	5.8930e+11	84	7.0155e+09	F(5, 84)	= 11.96
				Prob > F	= 0.0000
				R-squared	= 0.4159
				Adj R-squared	= 0.3811
Total	1.0088e+12	89	1.1335e+10	Root MSE	= 83759

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-21992.82	15507.07	-1.42	0.160	-.1397728
Sex	123789.7	18234.79	6.79	0.000	.5793874
w1Age	-1358.725	1143.709	-1.19	0.238	-.1266819
Race	0	(omitted)			.
PovStat	30318.41	21191.22	1.43	0.156	.1409005
TIME_V1SCAN	-29.5867	15.39448	-1.92	0.058	-.1735561
_cons	1054093	69833.37	15.09	0.000	.

294 . reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if Race==2,beta
    note: **Race** omitted because of collinearity.

Source	SS	df	MS		
Model	1.4697e+11	5	2.9393e+10	Number of obs	= 90
Residual	1.9907e+11	84	2.3699e+09	F(5, 84)	= 12.40
				Prob > F	= 0.0000
				R-squared	= 0.4247
				Adj R-squared	= 0.3905
Total	3.4604e+11	89	3.8880e+09	Root MSE	= 48681

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-13544.5	9012.886	-1.50	0.137	-.146979
Sex	63950.02	10598.27	6.03	0.000	.511065
w1Age	-1485.445	664.7368	-2.23	0.028	-.2364777
Race	0	(omitted)			.
PovStat	21082.48	12316.58	1.71	0.091	.1672932
TIME_V1SCAN	-17.80893	8.947449	-1.99	0.050	-.1783742
_cons	629133.9	40587.95	15.50	0.000	.

295 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if Race==2,beta
note: **Race** omitted because of collinearity.

Source	SS	df	MS			
				Number of obs	=	90
				F(5, 84)	=	8.13
Model	5.9424e+10	5	1.1885e+10	Prob > F	=	0.0000
Residual	1.2282e+11	84	1.4621e+09	R-squared	=	0.3261
				Adj R-squared	=	0.2860
Total	1.8224e+11	89	2.0477e+09	Root MSE	=	38238

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-9115.62	7079.357	-1.29	0.201	-.1363055
Sex	49004.1	8324.628	5.89	0.000	.5396383
w1Age	-278.7181	522.1313	-0.53	0.595	-.0611412
Race	0	(omitted)			.
PovStat	4328.296	9674.311	0.45	0.656	.047327
TIME_V1SCAN	-9.023814	7.027959	-1.28	0.203	-.1245429
_cons	420560.4	31880.64	13.19	0.000	.

296 .
297 .
298 . **Model 2**
299 .
300 . use finaldata_imputed,clear

301 .
302 .
303 . //ANALYSIS A//
304 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	90
	Average RVI	=	0.0281
	Largest FMI	=	0.1788
	Complete DF	=	83
DF adjustment: **Small sample**	DF: min	=	46.52
	avg	=	74.98
	max	=	81.06
Model F test: **Equal FMI**	F(6, 80.5)	=	9.50
Within VCE type: **OLS**	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-21745.7	15917.31	-1.37	0.176	-53419.82	9928.406
Sex	123693.7	18451.62	6.70	0.000	86980.27	160407.1
w1Age	-1373.703	1174.013	-1.17	0.245	-3709.868	962.4615
Race	0	(omitted)				
PovStat	30081.68	21316.51	1.41	0.162	-12331.05	72494.41
TIME_V1SCAN	-29.44323	15.48789	-1.90	0.061	-60.25893	1.372461
w1BMI	81.1143	1553.707	0.05	0.959	-3045.391	3207.619
_cons	1051928	82544.34	12.74	0.000	887470.6	1216385

305 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         90
                                           Average RVI     =     0.0364
                                           Largest FMI     =     0.2225
                                           Complete DF     =         83
DF adjustment:   Small sample              DF:    min      =      38.88
                                                  avg      =      73.45
                                                  max      =      81.06
Model F test:       Equal FMI              F(  6,   80.2)  =       9.77
Within VCE type:         OLS               Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-13263.22	9258.805	-1.43	0.156	-31688.31	5161.869
Sex	63975.66	10722.54	5.97	0.000	42640.78	85310.54
w1Age	-1504.283	682.8266	-2.20	0.030	-2863.094	-145.4725
Race	0	(omitted)				
PovStat	20908.76	12386.67	1.69	0.095	-3736.652	45554.17
TIME_V1SCAN	-17.72965	8.998746	-1.97	0.052	-35.63411	.1748195
w1BMI	112.7606	924.1775	0.12	0.904	-1756.744	1982.266
_cons	626046.2	48269.43	12.97	0.000	529820	722272.5

306 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==2

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         90
                                           Average RVI     =     0.0159
                                           Largest FMI     =     0.1054
                                           Complete DF     =         83
DF adjustment:   Small sample              DF:    min      =      62.08
                                                  avg      =      77.77
                                                  max      =      81.06
Model F test:       Equal FMI              F(  6,   80.9)  =       6.58
Within VCE type:         OLS               Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-9592.424	7248.302	-1.32	0.189	-24014.87	4830.02
Sex	48605.71	8422.112	5.77	0.000	31847.92	65363.5
w1Age	-241.7881	534.7768	-0.45	0.652	-1305.873	822.2969
Race	0	(omitted)				
PovStat	4314.79	9725.965	0.44	0.658	-15036.61	23666.19
TIME_V1SCAN	-8.922751	7.068887	-1.26	0.210	-22.98758	5.142082
w1BMI	-247.6948	682.6387	-0.36	0.718	-1612.237	1116.847
_cons	427521.3	37296.41	11.46	0.000	353267.7	501774.9

307 .

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

309 .
310 . *********************WHITES******************************************************
311 .
312 . **Model 1**
313 .
314 .
315 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

316 .
317 .
318 . //ANALYSIS A//
319 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN      if Race==1,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	123
					F(5, 117)	=	16.46
Model	7.2728e+11	5	1.4546e+11		Prob > F	=	0.0000
Residual	1.0338e+12	117	8.8359e+09		R-squared	=	0.4130
					Adj R-squared	=	0.3879
Total	1.7611e+12	122	1.4435e+10		Root MSE	=	93999

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	14911.79	18528.86	0.80	0.423	.0630656
Sex	141982.2	17355.59	8.18	0.000	.5909123
w1Age	-1779.524	1138.235	-1.56	0.121	-.1222293
Race	0	(omitted)			.
PovStat	-31747.64	20425.33	-1.55	0.123	-.1151978
TIME_V1SCAN	-22.91017	12.8904	-1.78	0.078	-.1297416
_cons	1103231	70288.15	15.70	0.000	.

```
320 . reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN      if Race==1,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	123
					F(5, 117)	=	15.79
Model	1.9197e+11	5	3.8394e+10		Prob > F	=	0.0000
Residual	2.8448e+11	117	2.4315e+09		R-squared	=	0.4029
					Adj R-squared	=	0.3774
Total	4.7646e+11	122	3.9054e+09		Root MSE	=	49310

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-88.89219	9719.847	-0.01	0.993	-.0007228
Sex	71348.44	9104.376	7.84	0.000	.5708897
w1Age	-1527.793	597.0941	-2.56	0.012	-.2017505
Race	0	(omitted)			.
PovStat	-19287.42	10714.69	-1.80	0.074	-.1345504
TIME_V1SCAN	-7.977756	6.762029	-1.18	0.240	-.086858
_cons	671649.7	36871.68	18.22	0.000	.

321 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if Race==1,beta
note: **Race** omitted because of collinearity.

Source	SS	df	MS
Model	1.3984e+11	5	2.7967e+10
Residual	2.5893e+11	117	2.2131e+09
Total	3.9877e+11	122	3.2686e+09

Number of obs	=	123
F(5, 117)	=	12.64
Prob > F	=	0.0000
R-squared	=	0.3507
Adj R-squared	=	0.3229
Root MSE	=	47043

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	9802.402	9273.03	1.06	0.293	.0871215
Sex	60513.49	8685.852	6.97	0.000	.5292628
w1Age	-601.0607	569.6459	-1.06	0.294	-.08676
Race	0	(omitted)			.
PovStat	-14936.65	10222.14	-1.46	0.147	-.1138979
TIME_V1SCAN	-13.41316	6.451182	-2.08	0.040	-.159629
_cons	430822.5	35176.7	12.25	0.000	.

322 .
323 .
324 . **Model 2**
325 .
326 .
327 . use finaldata_imputed,clear

328 .
329 .
330 .
331 . //ANALYSIS A//
332 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates

Linear regression

Imputations	=	5
Number of obs	=	123
Average RVI	=	0.0005
Largest FMI	=	0.0033
Complete DF	=	116

DF adjustment: **Small sample**

DF:	min	=	113.68
	avg	=	113.97
	max	=	114.05

Model F test: **Equal FMI**   F(6, 114.0) =   13.91
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	18094.57	18763.82	0.96	0.337	-19076.28	55265.42
Sex	145052.1	17589.82	8.25	0.000	110207	179897.3
w1Age	-1743.418	1138.176	-1.53	0.128	-3998.125	511.2892
Race	0	(omitted)				
PovStat	-29967.78	20485.38	-1.46	0.146	-70549.02	10613.46
TIME_V1SCAN	-21.54769	12.94988	-1.66	0.099	-47.2012	4.105824
w1BMI	1419.201	1345.399	1.05	0.294	-1246.104	4084.506
_cons	1043553	90199.47	11.57	0.000	864867.2	1222239

333 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates					Imputations	=	5
Linear regression					Number of obs	=	123
					Average RVI	=	0.0002
					Largest FMI	=	0.0012
					Complete DF	=	116
DF adjustment:	Small sample				DF: min	=	113.95
					avg	=	114.01
					max	=	114.05
Model F test:	Equal FMI				F(6, 114.0)	=	13.74
Within VCE type:	OLS				Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	2400.981	9784.36	0.25	0.807	-16981.67	21783.63
Sex	73756.97	9174.101	8.04	0.000	55583.17	91930.77
w1Age	-1499.599	593.533	-2.53	0.013	-2675.378	-323.82
Race	0	(omitted)				
PovStat	-17899.03	10682.41	-1.68	0.097	-39060.71	3262.648
TIME_V1SCAN	-6.904997	6.754682	-1.02	0.309	-20.28598	6.475988
w1BMI	1110.968	700.86	1.59	0.116	-277.4372	2499.374
_cons	624929.8	47020.64	13.29	0.000	531782.3	718077.3

334 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Race==1

Multiple-imputation estimates					Imputations	=	5
Linear regression					Number of obs	=	123
					Average RVI	=	0.0025
					Largest FMI	=	0.0180
					Complete DF	=	116
DF adjustment:	Small sample				DF: min	=	111.15
					avg	=	113.49
					max	=	114.05
Model F test:	Equal FMI				F(6, 114.0)	=	10.52
Within VCE type:	OLS				Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	10806.84	9419.242	1.15	0.254	-7852.617	29466.3
Sex	61476.46	8829.597	6.96	0.000	43985.12	78967.8
w1Age	-589.6225	571.2465	-1.03	0.304	-1721.252	542.0074
Race	0	(omitted)				
PovStat	-14371.55	10281.93	-1.40	0.165	-34739.91	5996.814
TIME_V1SCAN	-12.98904	6.499448	-2.00	0.048	-25.86434	-.1137379
w1BMI	447.2575	680.1364	0.66	0.512	-900.458	1794.973
_cons	412018.1	45399.3	9.08	0.000	322075.1	501961.2

335 .

336 . save, replace
file **finaldata_imputed.dta** saved

337 .
338 .
339 .
340 . //INTERACTION BY Race//
341 .
342 .
343 . //ANALYSIS A//
344 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```
Multiple-imputation estimates          Imputations      =         5
Linear regression                      Number of obs    =       213
                                       Average RVI      =    0.0097
                                       Largest FMI      =    0.0823
                                       Complete DF      =       204
DF adjustment:    Small sample         DF:     min      =    144.55
                                               avg      =    194.48
                                               max      =    202.01
Model F test:      Equal FMI           F(   8,  201.8)  =     20.86
Within VCE type:        OLS            Prob > F         =    0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	19478.72	17259.36	1.13	0.260	-14553.39	53510.82
Race						
AfrAm	20213.17	49732.16	0.41	0.685	-77847.54	118273.9
Race#c.LnNFLw3						
AfrAm	-40470.64	21530.16	-1.88	0.062	-82923.32	1982.048
Sex	136285.3	12827.23	10.62	0.000	110992.7	161577.8
w1Age	-1849.31	808.4223	-2.29	0.023	-3443.341	-255.2791
Race	0	(omitted)				
PovStat	-3621.553	14670.34	-0.25	0.805	-32548.18	25305.07
TIME_V1SCAN	-23.39263	9.873953	-2.37	0.019	-42.86194	-3.92332
w1BMI	907.6606	1015.948	0.89	0.373	-1100.373	2915.694
_cons	1043693	68671.95	15.20	0.000	908247.6	1179139

345 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```
Multiple-imputation estimates          Imputations      =         5
Linear regression                      Number of obs    =       213
                                       Average RVI      =    0.0148
                                       Largest FMI      =    0.1202
                                       Complete DF      =       204
DF adjustment:    Small sample         DF:     min      =    113.61
                                               avg      =    190.14
                                               max      =    202.00
Model F test:      Equal FMI           F(   8,  201.5)  =     21.69
Within VCE type:        OLS            Prob > F         =    0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	4123.496	9446.755	0.44	0.663	-14503.81	22750.8
Race						
AfrAm	-9641.247	27208.87	-0.35	0.723	-63291.11	44008.62
Race#c.LnNFLw3						
AfrAm	-17470.83	11779.64	-1.48	0.140	-40697.69	5756.027
Sex	69875.31	7018.99	9.96	0.000	56035.32	83715.3
w1Age	-1705.772	442.293	-3.86	0.000	-2577.878	-833.667
Race	0	(omitted)				
PovStat	-1045.557	8025.721	-0.13	0.896	-16870.49	14779.38
TIME_V1SCAN	-10.45391	5.403583	-1.93	0.054	-21.10866	.200843
w1BMI	691.7381	566.5933	1.22	0.225	-430.7199	1814.196
_cons	634563.9	37778.25	16.80	0.000	560032.6	709095.2

346 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI

Multiple-imputation estimates

Linear regression

Imputations =	5
Number of obs =	213
Average RVI =	0.0067
Largest FMI =	0.0587
Complete DF =	204

DF adjustment: **Small sample**

DF:	min =	165.34
	avg =	197.20
	max =	202.01

Model F test: **Equal FMI**   F(8, 201.9) =   14.18
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	10151.09	8347.88	1.22	0.225	-6309.224	26611.41
Race						
AfrAm	22422.29	24062.21	0.93	0.353	-25023.02	69867.61
Race#c.LnNFLw3						
AfrAm	-18718.01	10416.97	-1.80	0.074	-39257.95	1821.932
Sex	55958.34	6206.188	9.02	0.000	43721.06	68195.61
w1Age	-505.7301	391.1192	-1.29	0.197	-1276.931	265.4704
Race	0	(omitted)				
PovStat	-6014.917	7097.973	-0.85	0.398	-20010.54	7980.704
TIME_V1SCAN	-11.02672	4.776126	-2.31	0.022	-20.44419	-1.609261
w1BMI	204.3367	485.774	0.42	0.675	-754.7833	1163.457
_cons	410292	33123.38	12.39	0.000	344968	475616.1

347 .
348 . save, replace
    file **finaldata_imputed.dta** saved

349 .
350 .
351 . ******************LnNFLw3, MODELS 3-6*************************
352 .
353 . ***********MODEL 3: MODEL 2+w1dxDiabetes w1Glucose******
354 .
355 . //AFRICAN-AMERICAN//
356 .
357 .
358 . use finaldata_imputed,clear

359 .
360 .
361 .
362 . //ANALYSIS A//
363 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         90
                                           Average RVI      =     0.0647
                                           Largest FMI      =     0.2359
                                           Complete DF      =         81
DF adjustment:    Small sample             DF:     min      =      36.30
                                                   avg      =      67.79
                                                   max      =      78.84
Model F test:         Equal FMI            F(  8,   77.6)   =       7.66
Within VCE type:           OLS             Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-28477.22	15911.33	-1.79	0.077	-60148.95	3194.518
Sex	124117.2	18357.69	6.76	0.000	87559.53	160674.9
w1Age	-632.6413	1205.611	-0.52	0.601	-3032.756	1767.473
Race	0	(omitted)				
PovStat	33569.09	21314.74	1.57	0.119	-8875.081	76013.25
TIME_V1SCAN	-30.23665	15.29485	-1.98	0.052	-60.68176	.208452
w1BMI	-243.5229	1595.89	-0.15	0.880	-3479.209	2992.163
w1dxDiabetes	-31965.22	17068.03	-1.87	0.067	-66187.09	2256.648
w1Glucose	726.2721	384.4313	1.89	0.063	-41.36339	1493.908
_cons	978984.9	90882.75	10.77	0.000	797487.8	1160482

364 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         90
                                           Average RVI      =     0.1011
                                           Largest FMI      =     0.3025
                                           Complete DF      =         81
DF adjustment:    Small sample             DF:     min      =      27.89
                                                   avg      =      61.79
                                                   max      =      78.77
Model F test:         Equal FMI            F(  8,   75.9)   =       7.93
Within VCE type:           OLS             Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-17536.88	9224.008	-1.90	0.061	-35902.29	828.5422
Sex	64418.12	10574.21	6.09	0.000	43360.6	85475.64
w1Age	-1030.178	699.9156	-1.47	0.145	-2424.13	363.7744
Race	0	(omitted)				
PovStat	22768.78	12268.25	1.86	0.067	-1659.921	47197.48
TIME_V1SCAN	-18.05552	8.809624	-2.05	0.044	-35.59141	-.5196193
w1BMI	-74.21668	955.161	-0.08	0.939	-2031.13	1882.696
w1dxDiabetes	-22149.07	10574.3	-2.09	0.044	-43708.43	-589.7099
w1Glucose	432.447	231.0417	1.87	0.067	-32.06374	896.9578
_cons	582398.1	52658.91	11.06	0.000	477157	687639.2

365 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==2

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         90
                                           Average RVI      =     0.0546
                                           Largest FMI      =     0.1385
                                           Complete DF      =         81
DF adjustment:    Small sample             DF:     min      =      53.71
                                                   avg      =      69.88
                                                   max      =      78.86
Model F test:        Equal FMI             F(   8,   78.0)  =       5.15
Within VCE type:         OLS               Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-12075.67	7340.596	-1.65	0.104	-26687.85	2536.504
Sex	48634.51	8452.965	5.75	0.000	31801.92	65467.11
w1Age	27.84914	555.5894	0.05	0.960	-1078.216	1133.914
Race	0	(omitted)				
PovStat	5836.179	9812.533	0.59	0.554	-13702.58	25374.94
TIME_V1SCAN	-9.320885	7.044114	-1.32	0.190	-23.34224	4.700466
w1BMI	-378.7831	696.3271	-0.54	0.589	-1774.346	1016.78
w1dxDiabetes	-10484.63	7870.707	-1.33	0.188	-26266.42	5297.154
w1Glucose	286.7483	178.8407	1.60	0.114	-70.81673	644.3133
_cons	398860.4	41455.07	9.62	0.000	316168.4	481552.3

366 .
367 . save, replace
    file **finaldata_imputed.dta** saved

368 .
369 .
370 .
371 . //WHITES//
372 .
373 . use finaldata_imputed,clear

```
374 .
375 .
376 . //ANALYSIS A//
377 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if Race==1
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   123
                                             Average RVI   =   0.0184
                                             Largest FMI   =   0.1139
                                             Complete DF   =   114
DF adjustment: **Small sample**   DF: min   =   77.79
                                                     avg   =   104.23
                                                     max   =   112.00
Model F test: **Equal FMI**   F(8, 111.7)   =   10.26
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	18973.42	19692.8	0.96	0.337	-20048.1	57994.93
Sex	143599.4	17796.63	8.07	0.000	108337.7	178861.2
w1Age	-1884.142	1153.96	-1.63	0.105	-4170.591	402.3074
Race	0	(omitted)				
PovStat	-30831.99	20672.19	-1.49	0.139	-71791.39	10127.4
TIME_V1SCAN	-19.86309	13.20222	-1.50	0.135	-46.02232	6.296131
w1BMI	1172.569	1402.857	0.84	0.405	-1607.142	3952.28
w1dxDiabetes	17134.52	18481.14	0.93	0.357	-19660.15	53929.18
w1Glucose	-222.5659	421.8207	-0.53	0.599	-1062.221	617.0892
_cons	1070649	95367.81	11.23	0.000	881673.9	1259625

```
378 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if Race==1
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   123
                                             Average RVI   =   0.0147
                                             Largest FMI   =   0.0876
                                             Complete DF   =   114
DF adjustment: **Small sample**   DF: min   =   87.33
                                                     avg   =   106.39
                                                     max   =   112.01
Model F test: **Equal FMI**   F(8, 111.8)   =   10.09
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	2076.643	10282.5	0.20	0.840	-18297.86	22451.15
Sex	73021.12	9297.983	7.85	0.000	54598.37	91443.86
w1Age	-1557.42	602.6802	-2.58	0.011	-2751.556	-363.2841
Race	0	(omitted)				
PovStat	-18453.99	10800.27	-1.71	0.090	-39853.36	2945.376
TIME_V1SCAN	-6.08626	6.897661	-0.88	0.379	-19.75346	7.580937
w1BMI	986.3325	731.7823	1.35	0.180	-463.61	2436.275
w1dxDiabetes	6162.979	9513.832	0.65	0.519	-12742.37	25068.33
w1Glucose	-43.91005	217.7855	-0.20	0.841	-476.759	388.9389
_cons	634036	49903.29	12.71	0.000	535145.6	732926.4

379 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Race==1

Multiple-imputation estimates				Imputations	=	5
Linear regression				Number of obs	=	123
				Average RVI	=	0.0240
				Largest FMI	=	0.1424
				Complete DF	=	114
DF adjustment:	**Small sample**			DF: min	=	68.09
				avg	=	101.77
				max	=	111.98
Model F test:	**Equal FMI**			F(8, 111.6)	=	7.75
Within VCE type:	**OLS**			Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**11143.64**	**9892.54**	**1.13**	**0.262**	**-8458.993**	**30746.27**
Sex	**60736.6**	**8934.063**	**6.80**	**0.000**	**43034.87**	**78438.34**
w1Age	**-658.0926**	**579.2205**	**-1.14**	**0.258**	**-1805.756**	**489.5702**
Race	**0**	(omitted)				
PovStat	**-14810.3**	**10377.56**	**-1.43**	**0.156**	**-35372.19**	**5751.592**
TIME_V1SCAN	**-12.15399**	**6.626267**	**-1.83**	**0.069**	**-25.28342**	**.975431**
w1BMI	**322.7447**	**708.9331**	**0.46**	**0.650**	**-1082.313**	**1727.803**
w1dxDiabetes	**8291.381**	**9402.148**	**0.88**	**0.381**	**-10466.25**	**27049.01**
w1Glucose	**-102.9207**	**215.1369**	**-0.48**	**0.634**	**-532.2096**	**326.3681**
_cons	**425043.3**	**47861.34**	**8.88**	**0.000**	**330204.6**	**519882**

380 .
381 .
382 . save, replace
     file **finaldata_imputed.dta** saved

383 .
384 .
385 . //INTERACTION BY Race//
386 .
387 .
388 .
389 . //ANALYSIS A//
390 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates				Imputations	=	5
Linear regression				Number of obs	=	213
				Average RVI	=	0.0293
				Largest FMI	=	0.1828
				Complete DF	=	202
DF adjustment:	**Small sample**			DF: min	=	75.66
				avg	=	172.14
				max	=	200.03
Model F test:	**Equal FMI**			F(10, 198.7)	=	16.26
Within VCE type:	**OLS**			Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**16563.88**	**17875.99**	**0.93**	**0.355**	**-18688.02**	**51815.78**
Race						
AfrAm	**16274.86**	**50431.53**	**0.32**	**0.747**	**-83171.7**	**115721.4**
Race#c.LnNFLw3						
AfrAm	**-38491.08**	**21883.78**	**-1.76**	**0.080**	**-81644.15**	**4661.989**
Sex	**135996.4**	**12936.6**	**10.51**	**0.000**	**110486**	**161506.8**

w1Age	-1775.962	826.1599	-2.15	0.033	-3405.103	-146.8214
Race	0	(omitted)				
PovStat	-3705.67	14733.89	-0.25	0.802	-32759.35	25348.01
TIME_V1SCAN	-23.29781	9.953948	-2.34	0.020	-42.92611	-3.669516
w1BMI	845.3899	1041.104	0.81	0.418	-1212.94	2903.72
w1dxDiabetes	-5201.239	12663.94	-0.41	0.682	-30291.32	19888.84
w1Glucose	196.8116	301.0284	0.65	0.515	-402.7817	796.4049
_cons	1031024	72902.51	14.14	0.000	887113.3	1174935

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.0385
		Largest FMI	=	0.2031
		Complete DF	=	202
DF adjustment:	**Small sample**	DF: min	=	66.88
		avg	=	167.89
		max	=	199.96
Model F test:	**Equal FMI**	F(10, 197.8)	=	17.00
Within VCE type:	**OLS**	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	2055.082	9770.016	0.21	0.834	-17212.17	21322.34
Race						
AfrAm	-11846.62	27537.89	-0.43	0.668	-66149.17	42455.92
Race#c.LnNFLw3						
AfrAm	-16321.42	11950.33	-1.37	0.174	-39886.64	7243.794
Sex	69906.49	7063.175	9.90	0.000	55978.18	83834.79
w1Age	-1618.935	451.1064	-3.59	0.000	-2508.496	-729.3744
Race	0	(omitted)				
PovStat	-952.7627	8044.315	-0.12	0.906	-16815.34	14909.81
TIME_V1SCAN	-10.62932	5.440157	-1.95	0.052	-21.35702	.0983739
w1BMI	680.7582	576.7313	1.18	0.240	-461.4776	1822.994
w1dxDiabetes	-6708.83	6942.041	-0.97	0.336	-20470.72	7053.058
w1Glucose	163.1097	166.1299	0.98	0.330	-168.4975	494.717
_cons	621803.4	39950.9	15.56	0.000	542916.7	700690.1

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.0339
		Largest FMI	=	0.2185
		Complete DF	=	202
DF adjustment:	**Small sample**	DF: min	=	61.07
		avg	=	169.11
		max	=	199.99
Model F test:	**Equal FMI**	F(10, 198.3)	=	10.96
Within VCE type:	**OLS**	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	8841.693	8664.58	1.02	0.309	-8245.844	25929.23
Race						
AfrAm	20162.21	24402.97	0.83	0.410	-27958.45	68282.87
Race#c.LnNFLw3						
AfrAm	-17616.98	10590.49	-1.66	0.098	-38500.67	3266.721
Sex	55640.33	6259.95	8.89	0.000	43295.95	67984.71
w1Age	-500.7601	400.3082	-1.25	0.212	-1290.168	288.6475
Race	0	(omitted)				
PovStat	-6169.169	7128.775	-0.87	0.388	-20226.38	7888.037
TIME_V1SCAN	-10.78952	4.814125	-2.24	0.026	-20.2825	-1.296535
w1BMI	149.2915	500.3534	0.30	0.766	-839.2886	1137.872
w1dxDiabetes	102.2889	6322.669	0.02	0.987	-12488.48	12693.06
w1Glucose	69.42973	148.4803	0.47	0.642	-227.4682	366.3277
_cons	407643.2	35085.77	11.62	0.000	338406.8	476879.6

393 .
394 . save, replace
    file **finaldata_imputed.dta** saved

395 .
396 .
397 . ***********MODEL 4: MODEL 2+liver/kidney disease******
398 .
399 . //AFRICAN-AMERICAN//
400 .
401 . use finaldata_imputed,clear

402 .
403 .
404 .
405 . //ANALYSIS A//
406 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```
Multiple-imputation estimates            Imputations      =          5
Linear regression                        Number of obs    =         90
                                         Average RVI      =     0.1899
                                         Largest FMI      =     0.6551
                                         Complete DF      =         78
DF adjustment:   Small sample            DF:     min      =       8.35
                                                 avg      =      59.85
                                                 max      =      75.35
Model F test:        Equal FMI           F( 11,  70.6)    =       4.59
Within VCE type:         OLS             Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-20007.3	16769.85	-1.19	0.237	-53412.02	13397.42
Sex	141635.4	23879.85	5.93	0.000	93701.59	189569.3
w1Age	-897.7217	1299.563	-0.69	0.492	-3486.787	1691.344
Race	0	(omitted)				
PovStat	33383.16	21811.76	1.53	0.130	-10068.77	76835.09
TIME_V1SCAN	-31.911	15.86814	-2.01	0.048	-63.52189	-.3001148
w1BMI	1212.214	1662.217	0.73	0.469	-2124.283	4548.712
w1Creatinine	-12939.61	49642.32	-0.26	0.801	-126579.2	100700
w1USpecGrav	-1594285	1530810	-1.04	0.302	-4653358	1464788
w1BUN	-765.3401	2944.681	-0.26	0.796	-6634.906	5104.226
w1ALP	232.1416	490.1138	0.47	0.638	-759.2911	1223.574

w1UricAcid	-10002.16	7741.749	-1.29	0.201	-25450.91	5446.584
_cons	2652823	1548859	1.71	0.092	-440379.5	5746025

407 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	90
		Average RVI	=	0.1572
		Largest FMI	=	0.5613
		Complete DF	=	78
DF adjustment:	**Small sample**	DF: min	=	11.19
		avg	=	57.03
		max	=	75.08
Model F test:	**Equal FMI**	F(11, 72.0)	=	4.77
Within VCE type:	**OLS**	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-13496.77	9867.581	-1.37	0.176	-33158.11	6164.561
Sex	70805.27	14007.66	5.05	0.000	42674.65	98935.89
w1Age	-1438.973	761.1835	-1.89	0.063	-2955.555	77.60945
Race	0	(omitted)				
PovStat	21861.63	12750.54	1.71	0.091	-3538.307	47261.56
TIME_V1SCAN	-18.46836	9.297019	-1.99	0.051	-36.99035	.0536273
w1BMI	644.793	978.5074	0.66	0.513	-1321.648	2611.234
w1Creatinine	3020.195	26306.38	0.11	0.911	-54760.53	60800.92
w1USpecGrav	-1120755	906105	-1.24	0.221	-2934400	692890.3
w1BUN	315.8459	1771.883	0.18	0.859	-3225.854	3857.546
w1ALP	107.505	293.2661	0.37	0.716	-489.1018	704.1118
w1UricAcid	-4843.546	4589.274	-1.06	0.295	-14015.51	4328.419
_cons	1753101	918285.9	1.91	0.061	-83974.73	3590177

408 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	90
		Average RVI	=	0.1839
		Largest FMI	=	0.6556
		Complete DF	=	78
DF adjustment:	**Small sample**	DF: min	=	8.34
		avg	=	61.27
		max	=	75.66
Model F test:	**Equal FMI**	F(11, 70.8)	=	3.30
Within VCE type:	**OLS**	Prob > F	=	0.0011

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-8481.267	7624.9	-1.11	0.270	-23668.66	6706.13
Sex	57965.81	10875.5	5.33	0.000	36135.16	79796.47
w1Age	4.331726	595.6897	0.01	0.994	-1182.869	1191.532
Race	0	(omitted)				
PovStat	6018.797	9961.461	0.60	0.548	-13828.73	25866.32
TIME_V1SCAN	-10.23298	7.219593	-1.42	0.160	-24.6144	4.148443
w1BMI	251.745	736.7141	0.34	0.734	-1220.782	1724.272
w1Creatinine	-12663.18	22611.49	-0.56	0.590	-64437.11	39110.76
w1USpecGrav	-584287.8	701801.8	-0.83	0.408	-1987969	819393.9
w1BUN	-485.4296	1351.321	-0.36	0.721	-3180.725	2209.866
w1ALP	111.4811	214.458	0.52	0.605	-318.7856	541.7478
w1UricAcid	-4201.559	3506.626	-1.20	0.235	-11195.61	2792.492
_cons	1014491	709184.8	1.43	0.158	-402743.9	2431726

```
409 .
410 . save, replace
     file finaldata_imputed.dta saved

411 .
412 .
413 .
414 . //WHITES//
415 .
416 . use finaldata_imputed,clear

417 .
418 .
419 .
420 . //ANALYSIS A//
421 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	123
			Average RVI	=	0.1024
			Largest FMI	=	0.4839
			Complete DF	=	111
DF adjustment:	**Small sample**		DF: min	=	15.87
			avg	=	81.86
			max	=	108.56
Model F test:	**Equal FMI**		F(11, 105.4)	=	8.18
Within VCE type:	**OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**19825.02**	**19692.86**	**1.01**	**0.316**	**-19214.65**	**58864.68**
Sex	**168430.9**	**23423.12**	**7.19**	**0.000**	**121696.7**	**215165.2**
w1Age	**-1751.632**	**1125.839**	**-1.56**	**0.123**	**-3983.109**	**479.8443**
Race	**0**	(omitted)				
PovStat	**-24809.52**	**20274.63**	**-1.22**	**0.224**	**-64995.08**	**15376.03**
TIME_V1SCAN	**-29.56158**	**13.31583**	**-2.22**	**0.029**	**-55.97749**	**-3.145658**
w1BMI	**2792.322**	**1481.943**	**1.88**	**0.063**	**-152.447**	**5737.091**
w1Creatinine	**28031.78**	**49661.8**	**0.56**	**0.580**	**-77315.13**	**133378.7**
w1USpecGrav	**1016061**	**1709912**	**0.59**	**0.554**	**-2390452**	**4422575**
w1BUN	**1533.956**	**2512.836**	**0.61**	**0.544**	**-3515.767**	**6583.679**
w1ALP	**252.2044**	**411.6114**	**0.61**	**0.541**	**-564.3957**	**1068.804**
w1UricAcid	**-21476.41**	**7305.916**	**-2.94**	**0.004**	**-36002.07**	**-6950.754**
_cons	**-10470.24**	**1715484**	**-0.01**	**0.995**	**-3427493**	**3406552**

```
422 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc
```

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	123
			Average RVI	=	0.0982
			Largest FMI	=	0.4459
			Complete DF	=	111
DF adjustment:	**Small sample**		DF: min	=	18.18
			avg	=	80.38
			max	=	108.60
Model F test:	**Equal FMI**		F(11, 105.6)	=	7.83
Within VCE type:	**OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	1164.167	10397.7	0.11	0.911	-19450.91	21779.25
Sex	84524.03	12241.78	6.90	0.000	60127.72	108920.3
w1Age	-1552.208	594.3304	-2.61	0.010	-2730.295	-374.1221
Race	0	(omitted)				
PovStat	-15122.49	10675.32	-1.42	0.159	-36281.5	6036.531
TIME_V1SCAN	-10.48905	7.007244	-1.50	0.138	-24.38931	3.411211
w1BMI	1707.974	774.3297	2.21	0.030	170.5109	3245.438
w1Creatinine	13987.63	25395.87	0.55	0.588	-39329.72	67304.99
w1USpecGrav	262833	897543.1	0.29	0.770	-1524477	2050143
w1BUN	1204.418	1312.873	0.92	0.363	-1429.368	3838.204
w1ALP	225.904	229.6191	0.98	0.329	-233.0571	684.8651
w1UricAcid	-9767.908	3841.884	-2.54	0.013	-17405.2	-2130.616
_cons	338490.2	899779.1	0.38	0.708	-1452784	2129765

423 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAc

```
Multiple-imputation estimates                Imputations      =            5
Linear regression                            Number of obs    =          123
                                             Average RVI      =       0.1144
                                             Largest FMI      =       0.4897
                                             Complete DF      =          111
DF adjustment:    Small sample               DF:     min      =        15.55
                                                     avg      =        80.53
                                                     max      =       108.65
Model F test:        Equal FMI               F(  11,  104.6)  =         6.21
Within VCE type:          OLS                Prob > F         =       0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	12419.45	9899.082	1.25	0.212	-7203.945	32042.85
Sex	72939.35	11656.51	6.26	0.000	49722.01	96156.7
w1Age	-578.0675	566.3549	-1.02	0.310	-1700.605	544.4701
Race	0	(omitted)				
PovStat	-11963.56	10217.13	-1.17	0.244	-32215.42	8288.296
TIME_V1SCAN	-16.79975	6.670824	-2.52	0.013	-30.0295	-3.570009
w1BMI	1133.493	755.2967	1.50	0.137	-369.6698	2636.657
w1Creatinine	12235.22	25113.31	0.49	0.633	-41126.97	65597.4
w1USpecGrav	517813.2	845432.6	0.61	0.542	-1162590	2198217
w1BUN	608.2199	1264.563	0.48	0.633	-1933.082	3149.522
w1ALP	79.26543	215.0988	0.37	0.714	-349.2371	507.768
w1UricAcid	-10425.53	3765.945	-2.77	0.007	-17938.31	-2912.748
_cons	-121463.8	847500.5	-0.14	0.886	-1805601	1562674

424 .
425 . save, replace
      file **finaldata_imputed.dta** saved

```
426 .
427 . **INTERACTION BY Race**
428 .
429 .
430 . //ANALYSIS A//
431 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU
```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.1251
	Largest FMI	=	0.5243
	Complete DF	=	199
DF adjustment: **Small sample**	DF: min	=	15.35
	avg	=	134.58
	max	=	193.00
Model F test: **Equal FMI**	F(13, 184.8)	=	12.44
Within VCE type: **OLS**	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	21170.05	17934.81	1.18	0.239	-14213.63	56553.73
Race						
AfrAm	26559.36	50104.71	0.53	0.597	-72277.17	125395.9
Race#c.LnNFLw3						
AfrAm	-40154.59	21533.96	-1.86	0.064	-82628.98	2319.793
Sex	158685.6	16448.04	9.65	0.000	126095.4	191275.8
w1Age	-1623.497	824.2588	-1.97	0.050	-3249.261	2.2677
Race	0	(omitted)				
PovStat	-290.1287	14646.52	-0.02	0.984	-29177.93	28597.67
TIME_V1SCAN	-25.1349	9.898212	-2.54	0.012	-44.65971	-5.61009
w1BMI	2073.797	1090.534	1.90	0.059	-82.84478	4230.438
w1Creatinine	-450.0058	32576.22	-0.01	0.989	-69747.8	68847.79
w1USpecGrav	-562517.5	1155929	-0.49	0.628	-2857212	1732177
w1BUN	1571.092	1813.657	0.87	0.388	-2015.249	5157.434
w1ALP	246.4877	327.0218	0.75	0.454	-408.7525	901.728
w1UricAcid	-15822.13	5396.798	-2.93	0.004	-26540.02	-5104.236
_cons	1579150	1159267	1.36	0.176	-720401.6	3878701

```
432 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP
```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.1772
	Largest FMI	=	0.5887
	Complete DF	=	199
DF adjustment: **Small sample**	DF: min	=	12.28
	avg	=	119.82
	max	=	193.54
Model F test: **Equal FMI**	F(13, 176.0)	=	12.27
Within VCE type: **OLS**	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	2797.088	9906.004	0.28	0.778	-16753.8	22347.98
Race						
AfrAm	-6939.634	27549.9	-0.25	0.801	-61289.87	47410.61
Race#c.LnNFLw3						
AfrAm	-16843.9	11811.27	-1.43	0.155	-40140.86	6453.064
Sex	80115.19	9310.646	8.60	0.000	61572.67	98657.71
w1Age	-1659.222	454.7474	-3.65	0.000	-2556.358	-762.0859
Race	0	(omitted)				
PovStat	858.0545	8028.997	0.11	0.915	-14977.51	16693.62
TIME_V1SCAN	-11.23503	5.43799	-2.07	0.040	-21.96244	-.5076154
w1BMI	1224.466	603.5437	2.03	0.045	29.64441	2419.288
w1Creatinine	4530.822	18975.95	0.24	0.815	-36709.85	45771.49
w1USpecGrav	-502078.5	638618.6	-0.79	0.434	-1771322	767164.8
w1BUN	1276.499	1047.043	1.22	0.227	-809.966	3362.964
w1ALP	177.9786	201.3037	0.88	0.386	-238.5317	594.4889
w1UricAcid	-7442.548	3028.839	-2.46	0.016	-13482.49	-1402.602
_cons	1119714	639950.7	1.75	0.083	-150965	2390393

433 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   213
                                       Average RVI   =   0.0961
                                       Largest FMI   =   0.4542
                                       Complete DF   =   199
DF adjustment: **Small sample**   DF: min   =   19.93
                                               avg   =   140.97
                                               max   =   194.77
Model F test: **Equal FMI**   F(13, 189.1) =   8.72
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	11795.03	8648.78	1.36	0.174	-5263.812	28853.86
Race						
AfrAm	26161.49	24230.39	1.08	0.282	-21629.21	73952.19
Race#c.LnNFLw3						
AfrAm	-18894.62	10423.7	-1.81	0.071	-39452.98	1663.743
Sex	66910.63	7820.813	8.56	0.000	51452.54	82368.71
w1Age	-393.0653	398.8278	-0.99	0.326	-1179.641	393.5105
Race	0	(omitted)				
PovStat	-4512.332	7127.456	-0.63	0.527	-18571.07	9546.405
TIME_V1SCAN	-11.76734	4.800758	-2.45	0.015	-21.23678	-2.297889
w1BMI	746.8198	528.0807	1.41	0.160	-297.2261	1790.866
w1Creatinine	-4640.283	14943.89	-0.31	0.759	-35819.55	26538.98
w1USpecGrav	-225841.4	560368.7	-0.40	0.688	-1338015	886332.2
w1BUN	630.3977	903.5969	0.70	0.487	-1162.453	2423.249
w1ALP	94.53977	148.8238	0.64	0.527	-200.1941	389.2737
w1UricAcid	-7234.867	2606.229	-2.78	0.007	-12406.49	-2063.241
_cons	625935.6	562323	1.11	0.268	-489368.9	1741240

434 .
435 .
436 . save, replace
    file **finaldata_imputed.dta** saved

437 .
438 .
439 . ***********MODEL 5: MODEL2+OXIDATIVE STRESS******
440 .
441 . //AFRICAN-AMERICAN//
442 .
443 . use finaldata_imputed,clear

444 .
445 .
446 . //ANALYSIS A//
447 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Ra

```
Multiple-imputation estimates              Imputations       =         5
Linear regression                          Number of obs     =        90
                                           Average RVI       =    0.1232
                                           Largest FMI       =    0.4621
                                           Complete DF       =        80
DF adjustment:    Small sample             DF:     min       =     15.59
                                                   avg       =     57.46
                                                   max       =     76.79
Model F test:       Equal FMI              F(  9,   74.3)    =      5.99
Within VCE type:         OLS               Prob > F          =    0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-22775.98	16151.31	-1.41	0.163	-54940.69	9388.716
Sex	119034.8	19199.83	6.20	0.000	80782.4	157287.1
w1Age	-1596.978	1242.911	-1.28	0.203	-4079.325	885.3694
Race	0	(omitted)				
PovStat	32718.98	21644.5	1.51	0.135	-10382.64	75820.6
TIME_V1SCAN	-22.39983	16.3973	-1.37	0.176	-55.09156	10.2919
w1BMI	577.1838	1640.646	0.35	0.727	-2733.62	3887.988
w1TotalD	1667.77	1666.781	1.00	0.332	-1873.246	5208.787
w1Albumin	7675.027	34868.42	0.22	0.827	-62459.49	77809.54
w1EosinPct	4914.745	5362.185	0.92	0.363	-5803.121	15632.61
_cons	966980.6	191073.8	5.06	0.000	581706.2	1352255

448 .
449 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==2

```
Multiple-imputation estimates              Imputations       =         5
Linear regression                          Number of obs     =        90
                                           Average RVI       =    0.1210
                                           Largest FMI       =    0.4351
                                           Complete DF       =        80
DF adjustment:    Small sample             DF:     min       =     17.09
                                                   avg       =     57.22
                                                   max       =     76.60
Model F test:       Equal FMI              F(  9,   74.5)    =      6.22
Within VCE type:         OLS               Prob > F          =    0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-13789.16	9414.799	-1.46	0.147	-32540.83	4962.506
Sex	61213.99	11129.73	5.50	0.000	39044.49	83383.49
w1Age	-1583.676	722.3251	-2.19	0.032	-3026.203	-141.1483
Race	0	(omitted)				
PovStat	21495.27	12596.09	1.71	0.092	-3588.828	46579.36
TIME_V1SCAN	-14.3957	9.510467	-1.51	0.134	-33.35278	4.561375
w1BMI	286.3214	982.0354	0.29	0.772	-1709.355	2281.998
w1TotalD	561.9019	950.3074	0.59	0.562	-1442.25	2566.054
w1Albumin	721.7412	20114.37	0.04	0.972	-39673.87	41117.35
w1EosinPct	4010.762	3139.096	1.28	0.206	-2269.726	10291.25
_cons	600265.8	110214.8	5.45	0.000	378415.1	822116.4

450 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==2

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	90
		Average RVI	=	0.0845
		Largest FMI	=	0.3667
		Complete DF	=	80
DF adjustment:	**Small sample**	DF: min	=	21.78
		avg	=	64.44
		max	=	77.40
Model F test:	**Equal FMI**	F(9, 76.0)	=	4.36
Within VCE type:	**OLS**	Prob > F	=	0.0001

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-10201.08	7338.103	-1.39	0.168	-24811.92	4409.751
Sex	46671.26	8801.418	5.30	0.000	29129.53	64212.99
w1Age	-351.2089	557.1541	-0.63	0.530	-1461.908	759.4898
Race	0	(omitted)				
PovStat	6100.991	9849.448	0.62	0.537	-13510.48	25712.46
TIME_V1SCAN	-5.635439	7.42204	-0.76	0.450	-20.42372	9.152843
w1BMI	37.50686	708.2413	0.05	0.958	-1377.647	1452.661
w1TotalD	922.6536	711.234	1.30	0.208	-553.2107	2398.518
w1Albumin	7352.144	15476.07	0.48	0.637	-23624.75	38329.04
w1EosinPct	1240.003	2404.719	0.52	0.608	-3556.785	6036.791
_cons	369720.7	83819.79	4.41	0.000	201945.8	537495.5

451 .
452 .
453 . save, replace
   file **finaldata_imputed.dta** saved

454 .
455 .
456 .

457 . //WHITES//
458 .
459 . use finaldata_imputed,clear

460 .
461 .
462 .
463 . //ANALYSIS A//
464 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Ra

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	123
			Average RVI	=	0.0666
			Largest FMI	=	0.4077
			Complete DF	=	113
DF adjustment:	**Small sample**		DF: min	=	21.05
			avg	=	99.53
			max	=	110.95
Model F test:	**Equal FMI**		F(9, 108.6)	=	8.73
Within VCE type:	**OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**14888.57**	**19110.01**	**0.78**	**0.438**	**-22982.9**	**52760.05**
Sex	**150450.8**	**18360.94**	**8.19**	**0.000**	**114063.8**	**186837.7**
w1Age	**-1863.069**	**1149.624**	**-1.62**	**0.108**	**-4141.164**	**415.0261**
Race	**0**	(omitted)				
PovStat	**-28508.25**	**20767.73**	**-1.37**	**0.173**	**-69663.56**	**12647.06**
TIME_V1SCAN	**-23.90582**	**13.38153**	**-1.79**	**0.077**	**-50.42233**	**2.61069**
w1BMI	**1077.087**	**1411.046**	**0.76**	**0.447**	**-1719.241**	**3873.414**
w1TotalD	**297.9331**	**1082.289**	**0.28**	**0.786**	**-1952.507**	**2548.373**
w1Albumin	**-34199.57**	**35360.14**	**-0.97**	**0.336**	**-104320.9**	**35921.71**
w1EosinPct	**-2948.337**	**4473.354**	**-0.66**	**0.511**	**-11825.85**	**5929.174**
_cons	**1210998**	**193415.7**	**6.26**	**0.000**	**827706.1**	**1594290**

465 .
466 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==1

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	123
			Average RVI	=	0.0860
			Largest FMI	=	0.4716
			Complete DF	=	113
DF adjustment:	**Small sample**		DF: min	=	16.65
			avg	=	96.94
			max	=	111.02
Model F test:	**Equal FMI**		F(9, 107.3)	=	8.25
Within VCE type:	**OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**1562.809**	**10007.24**	**0.16**	**0.876**	**-18268.72**	**21394.34**
Sex	**75092.69**	**9608.836**	**7.81**	**0.000**	**56051.06**	**94134.31**
w1Age	**-1520.383**	**603.2076**	**-2.52**	**0.013**	**-2715.738**	**-325.0273**
Race	**0**	(omitted)				
PovStat	**-17823**	**10888.84**	**-1.64**	**0.105**	**-39401.7**	**3755.708**
TIME_V1SCAN	**-7.511176**	**7.010288**	**-1.07**	**0.286**	**-21.4025**	**6.380147**
w1BMI	**1059.871**	**739.125**	**1.43**	**0.154**	**-404.8654**	**2524.608**
w1TotalD	**111.8787**	**594.3133**	**0.19**	**0.853**	**-1144.033**	**1367.79**
w1Albumin	**-9383.062**	**18721.49**	**-0.50**	**0.617**	**-46537.68**	**27771.56**
w1EosinPct	**409.6274**	**2394.44**	**0.17**	**0.865**	**-4353.022**	**5172.277**
_cons	**665112.5**	**101502.3**	**6.55**	**0.000**	**463956.3**	**866268.6**

_____|_____

467 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Race==1

```
Multiple-imputation estimates              Imputations      =            5
Linear regression                          Number of obs    =          123
                                           Average RVI      =       0.0618
                                           Largest FMI      =       0.3726
                                           Complete DF      =          113
DF adjustment:    Small sample             DF:      min     =        24.12
                                                    avg     =        99.17
                                                    max     =       110.82
Model F test:          Equal FMI           F(   9,  108.9)  =         6.78
Within VCE type:            OLS            Prob > F         =       0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	9304.424	9571.222	0.97	0.333	-9663.5	28272.35
Sex	63840.77	9224.015	6.92	0.000	45558.99	82122.55
w1Age	-652.885	575.7665	-1.13	0.259	-1793.825	488.0552
Race	0	(omitted)				
PovStat	-13191.97	10390.7	-1.27	0.207	-33782.62	7398.675
TIME_V1SCAN	-13.7293	6.712026	-2.05	0.043	-27.03021	-.4284002
w1BMI	301.0729	711.5967	0.42	0.673	-1109.511	1711.657
w1TotalD	217.6683	529.3317	0.41	0.685	-874.5384	1309.875
w1Albumin	-13308.98	17810.07	-0.75	0.457	-48641.34	22023.38
w1EosinPct	-2380.323	2220.763	-1.07	0.286	-6784.566	2023.92
_cons	478325	98032.54	4.88	0.000	283953.4	672696.6

468 .
469 . save, replace
    file **finaldata_imputed.dta** saved

470 .
471 .
472 . **********INTERACTION BY Race***************
473 .
474 .
475 .
476 . //ANALYSIS A//
477 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPc

```
Multiple-imputation estimates              Imputations      =            5
Linear regression                          Number of obs    =          179
                                           Average RVI      =       0.0121
                                           Largest FMI      =       0.1129
                                           Complete DF      =          167
DF adjustment:    Small sample             DF:      min     =       103.91
                                                    avg     =       159.21
                                                    max     =       165.00
Model F test:          Equal FMI           F(  11,  164.8)  =        13.10
Within VCE type:            OLS            Prob > F         =       0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	16202.86	18537.47	0.87	0.383	-20398.82	52804.53
Race						
AfrAm	17269.66	55183.68	0.31	0.755	-91693.88	126233.2
Race#c.LnNFLw3						
AfrAm	-37261.04	23704.76	-1.57	0.118	-84065.3	9543.226
Sex	140172.6	14195.24	9.87	0.000	112143.7	168201.5
w1Age	-2286.919	864.4696	-2.65	0.009	-3993.786	-580.0526
Race	0	(omitted)				
PovStat	-329.345	16060.73	-0.02	0.984	-32040.96	31382.27
TIME_V1SCAN	-20.24258	11.77347	-1.72	0.087	-43.48937	3.00421
w1BMI	785.7691	1114.768	0.70	0.482	-1415.306	2986.844
w1TotalD	807.8759	801.5262	1.01	0.316	-781.5971	2397.349
w1Albumin	-2484.622	27146.86	-0.09	0.927	-56084.62	51115.37
w1EosinPct	-2196.042	3507.404	-0.63	0.532	-9122.332	4730.249
_cons	1054513	150663.1	7.00	0.000	757030.1	1351997

478 .
479 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   179
                                       Average RVI   =   0.0072
                                       Largest FMI   =   0.0710
                                       Complete DF   =   167
DF adjustment: **Small sample**   DF: min   =   130.64
                                                avg   =   161.80
                                                max   =   165.02
Model F test: **Equal FMI**   F(11, 165.0)   =   14.68
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3743.979	9969.809	0.38	0.708	-15940.96	23428.92
Race						
AfrAm	-10653.72	29650.86	-0.36	0.720	-69199.43	47892
Race#c.LnNFLw3						
AfrAm	-16647.57	12749.72	-1.31	0.193	-41821.3	8526.155
Sex	71826.22	7628.286	9.42	0.000	56764.32	86888.13
w1Age	-1948.831	464.902	-4.19	0.000	-2866.757	-1030.905
Race	0	(omitted)				
PovStat	-1769.847	8636.66	-0.20	0.838	-18822.6	15282.9
TIME_V1SCAN	-7.107043	6.329877	-1.12	0.263	-19.60525	5.391158
w1BMI	677.234	599.6212	1.13	0.260	-506.6936	1861.162
w1TotalD	260.2571	422.239	0.62	0.539	-575.0537	1095.568
w1Albumin	5199.335	14605.96	0.36	0.722	-23639.31	34037.98
w1EosinPct	571.4228	1881.708	0.30	0.762	-3144.198	4287.044
_cons	608544.4	81014.45	7.51	0.000	448583.8	768505

480 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

```
     Multiple-imputation estimates              Imputations       =          5
     Linear regression                          Number of obs     =        179
                                                Average RVI       =     0.0136
                                                Largest FMI       =     0.1179
                                                Complete DF       =        167
     DF adjustment:    Small sample             DF:     min       =     100.92
                                                        avg       =     158.72
                                                        max       =     164.97
     Model F test:        Equal FMI             F(  11,  164.8)   =       8.92
     Within VCE type:        OLS                Prob > F          =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	7597.932	8999.004	0.84	0.400	-10170.49	25366.35
Race						
AfrAm	22875.57	26793.24	0.85	0.394	-30030.14	75781.28
Race#c.LnNFLw3						
AfrAm	-17140.07	11505.45	-1.49	0.138	-39857.33	5577.188
Sex	57397.63	6896.3	8.32	0.000	43780.3	71014.96
w1Age	-697.7378	419.5756	-1.66	0.098	-1526.18	130.7047
Race	0	(omitted)				
PovStat	-3183.485	7795.259	-0.41	0.684	-18575.17	12208.2
TIME_V1SCAN	-10.74342	5.714115	-1.88	0.062	-22.02605	.5392021
w1BMI	215.8497	541.0482	0.40	0.690	-852.4392	1284.139
w1TotalD	521.6599	389.9041	1.34	0.184	-251.8123	1295.132
w1Albumin	690.5248	13172.87	0.05	0.958	-25318.63	26699.68
w1EosinPct	-1975.906	1704.147	-1.16	0.248	-5341.344	1389.533
_cons	405876.2	73114.42	5.55	0.000	261511.9	550240.6

481 .
482 . save, replace
    file **finaldata_imputed.dta** saved

483 .
484 .
485 .
486 . ***********MODEL 6: MODEL 2+lifestyle/health-related factors*******
487 .
488 .
489 . //AFRICAN-AMERICAN//
490 .
491 . use finaldata_imputed,clear

492 .
493 .
494 . //ANALYSIS A//

495 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         90
                                           Average RVI      =     0.0261
                                           Largest FMI      =     0.1452
                                           Complete DF      =         81
DF adjustment:    Small sample             DF:      min     =      52.31
                                                    avg     =      74.08
                                                    max     =      79.06
Model F test:          Equal FMI           F(   8,   78.7)  =       7.74
Within VCE type:            OLS            Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-17833.03	15859.11	-1.12	0.264	-49401.51	13735.45
Sex	116190.5	18814.48	6.18	0.000	78738.24	153642.8
w1Age	-1465.373	1163.257	-1.26	0.211	-3780.933	850.1876
Race	0	(omitted)				
PovStat	29782.59	21109.23	1.41	0.162	-12233.82	71798.99
TIME_V1SCAN	-27.93294	15.35238	-1.82	0.073	-58.49096	2.625079
w1BMI	-205.6012	1534.495	-0.13	0.894	-3284.354	2873.152
w1currdrugs	1487	20990.96	0.07	0.944	-40412.21	43386.21
w1SRH	22313.93	11602.97	1.92	0.058	-782.3969	45410.26
_cons	1014830	84658.28	11.99	0.000	846171.8	1183488

496 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         90
                                           Average RVI      =     0.0371
                                           Largest FMI      =     0.2125
                                           Complete DF      =         81
DF adjustment:    Small sample             DF:      min     =      39.91
                                                    avg     =      72.27
                                                    max     =      79.04
Model F test:          Equal FMI           F(   8,   78.5)  =       8.29
Within VCE type:            OLS            Prob > F          =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-10579.08	9128.149	-1.16	0.250	-28749.78	7591.609
Sex	59877.82	10823.12	5.53	0.000	38333	81422.64
w1Age	-1591.002	669.3826	-2.38	0.020	-2923.496	-258.5084
Race	0	(omitted)				
PovStat	20447.01	12140.71	1.68	0.096	-3718.29	44612.31
TIME_V1SCAN	-16.7656	8.827759	-1.90	0.061	-34.33666	.8054712
w1BMI	-149.3563	914.3547	-0.16	0.871	-1997.473	1698.76
w1currdrugs	-7420.16	12098.93	-0.61	0.542	-31576.69	16736.37
w1SRH	14371.04	6685.147	2.15	0.035	1062.948	27679.12
_cons	607038.8	49003.81	12.39	0.000	509361.5	704716.1

497 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==2

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         90
                                           Average RVI       =     0.0153
                                           Largest FMI       =     0.0655
                                           Complete DF       =         81
DF adjustment:    Small sample             DF:     min       =      69.28
                                                   avg       =      76.48
                                                   max       =      78.97
Model F test:        Equal FMI             F(   8,   78.9)   =       5.26
Within VCE type:           OLS             Prob > F          =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-8440.645	7283.691	-1.16	0.250	-22938.57	6057.277
Sex	45448.42	8656.363	5.25	0.000	28216.73	62680.11
w1Age	-247.3305	534.3591	-0.46	0.645	-1310.972	816.3111
Race	0	(omitted)				
PovStat	4455.334	9719.627	0.46	0.648	-14891.63	23802.29
TIME_V1SCAN	-8.414008	7.071223	-1.19	0.238	-22.48957	5.661555
w1BMI	-273.1871	677.9198	-0.40	0.688	-1625.502	1079.127
w1currdrugs	8060.287	9587.851	0.84	0.403	-11063.36	27183.93
w1SRH	7409.684	5336.769	1.39	0.169	-3213.469	18032.84
_cons	410809.6	38698.27	10.62	0.000	333744.9	487874.2

498 .
499 .
500 . save, replace
    file **finaldata_imputed.dta** saved

501 .
502 .
503 .
504 . //WHITES//
505 .
506 . use finaldata_imputed,clear

507 .
508 .
509 . //ANALYSIS A//
510 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==1

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =        123
                                           Average RVI       =     0.0196
                                           Largest FMI       =     0.1502
                                           Complete DF       =        114
DF adjustment:    Small sample             DF:     min       =      65.59
                                                   avg       =     106.10
                                                   max       =     112.01
Model F test:        Equal FMI             F(   8,  111.7)   =      10.28
Within VCE type:           OLS             Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	17634.74	18913.21	0.93	0.353	-19840	55109.47
Sex	141539.2	18106.78	7.82	0.000	105659.8	177418.7
w1Age	-1867.848	1152.697	-1.62	0.108	-4151.848	416.1525
Race	0	(omitted)				
PovStat	-28217.14	21355.4	-1.32	0.189	-70531.89	14097.61
TIME_V1SCAN	-22.34524	13.43884	-1.66	0.099	-48.97539	4.284916
w1BMI	1317.43	1384.279	0.95	0.343	-1425.754	4060.613
w1currdrugs	-19876.26	26995.75	-0.74	0.464	-73781.27	34028.74
w1SRH	8599.093	11574.97	0.74	0.459	-14335.21	31533.4
_cons	1042402	99432.3	10.48	0.000	845345.5	1239459

511 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==1

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =        123
                                           Average RVI      =     0.0221
                                           Largest FMI      =     0.1608
                                           Complete DF      =        114
DF adjustment:    Small sample             DF:      min     =      62.32
                                                    avg     =     105.55
                                                    max     =     111.96
Model F test:        Equal FMI             F(   8,  111.6)  =      10.42
Within VCE type:          OLS              Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	1947.84	9808.034	0.20	0.843	-17486	21381.68
Sex	70923.9	9393.392	7.55	0.000	52310.04	89537.76
w1Age	-1601.126	597.8244	-2.68	0.009	-2785.693	-416.5598
Race	0	(omitted)				
PovStat	-16992.85	11072.96	-1.53	0.128	-38933.5	4947.801
TIME_V1SCAN	-7.287592	6.993144	-1.04	0.300	-21.14697	6.571785
w1BMI	1012.479	716.979	1.41	0.161	-408.2921	2433.25
w1currdrugs	-16597.43	14072.77	-1.18	0.243	-44725.65	11530.79
w1SRH	5880.236	6001.962	0.98	0.329	-6011.925	17772.4
_cons	627243.8	51567.63	12.16	0.000	525044.6	729443

512 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if Race==1

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =        123
                                           Average RVI      =     0.0181
                                           Largest FMI      =     0.1355
                                           Complete DF      =        114
DF adjustment:    Small sample             DF:      min     =      70.35
                                                    avg     =     106.32
                                                    max     =     112.03
Model F test:        Equal FMI             F(   8,  111.8)  =       7.66
Within VCE type:          OLS              Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	11000.77	9529.35	1.15	0.251	-7880.642	29882.19
Sex	61394.03	9123.69	6.73	0.000	43315.07	79472.99
w1Age	-589.5886	580.6091	-1.02	0.312	-1740.017	560.8394
Race	0	(omitted)				
PovStat	-13181.69	10756.33	-1.23	0.223	-34494.56	8131.181
TIME_V1SCAN	-13.6129	6.751153	-2.02	0.046	-26.98967	-.2361381
w1BMI	482.7913	702.7294	0.69	0.494	-910.2332	1875.816
w1currdrugs	794.3236	13502.23	0.06	0.953	-26132.68	27721.33
w1SRH	2572.618	5832.65	0.44	0.660	-8983.993	14129.23
_cons	404633.9	50224.3	8.06	0.000	305088.8	504178.9

513 .
514 .
515 . save, replace
   file **finaldata_imputed.dta** saved

516 .
517 . ******************INTERACTION BY Race**********************
518 .
519 .
520 . //ANALYSIS A//
521 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   213
                                             Average RVI   =   0.0138
                                             Largest FMI   =   0.0839
                                             Complete DF   =   202
DF adjustment: **Small sample**   DF: min   =   141.99
                                                      avg   =   189.96
                                                      max   =   199.99
Model F test: **Equal FMI**   F(10, 199.7)   =   17.14
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	19393.38	17222.57	1.13	0.262	-14568.48	53355.24
Race						
AfrAm	14422.98	49609.74	0.29	0.772	-83402.32	112248.3
Race#c.LnNFLw3						
AfrAm	-37323.05	21527.87	-1.73	0.085	-79773.92	5127.829
Sex	132979.7	12885.86	10.32	0.000	107570	158389.5
w1Age	-1925.932	809.3513	-2.38	0.018	-3521.898	-329.9651
Race	0	(omitted)				
PovStat	-807.9605	14808.08	-0.05	0.957	-30008.14	28392.21
TIME_V1SCAN	-25.02888	9.944024	-2.52	0.013	-44.63815	-5.419619
w1BMI	819.7935	1025.522	0.80	0.425	-1207.47	2847.057
w1currdrugs	-10778.16	16308.06	-0.66	0.510	-42981.83	21425.51
w1SRH	14608.16	8088.74	1.81	0.072	-1342.055	30558.37
_cons	1024434	72073.7	14.21	0.000	882258.1	1166610

522 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

```
Multiple-imputation estimates              Imputations      =         5
Linear regression                          Number of obs    =       213
                                           Average RVI      =    0.0195
                                           Largest FMI      =    0.1314
                                           Complete DF      =       202
DF adjustment:   Small sample              DF:     min      =    104.98
                                                   avg      =    186.18
                                                   max      =    199.91
Model F test:       Equal FMI              F( 10,  199.4)   =     18.47
Within VCE type:         OLS               Prob > F         =    0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3765.222	9348.067	0.40	0.688	-14668.93	22199.37
Race						
AfrAm	-14132.06	26904.68	-0.53	0.600	-67185.44	38921.32
Race#c.LnNFLw3						
AfrAm	-14814.95	11677.51	-1.27	0.206	-37841.98	8212.091
Sex	67383.23	6987.508	9.64	0.000	53604.47	81162
w1Age	-1784.096	439.0374	-4.06	0.000	-2649.843	-918.3495
Race	0	(omitted)				
PovStat	499.3832	8034.596	0.06	0.951	-15344.25	16343.02
TIME_V1SCAN	-11.38624	5.415389	-2.10	0.037	-22.06627	-.7062022
w1BMI	583.2684	569.6727	1.02	0.308	-546.2896	1712.826
w1currdrugs	-12498.65	8788.859	-1.42	0.157	-29846.25	4848.951
w1SRH	9993.423	4390.568	2.28	0.024	1335.517	18651.33
_cons	625991.8	39350.87	15.91	0.000	548338.8	703644.7

523 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

```
Multiple-imputation estimates              Imputations      =         5
Linear regression                          Number of obs    =       213
                                           Average RVI      =    0.0120
                                           Largest FMI      =    0.0796
                                           Complete DF      =       202
DF adjustment:   Small sample              DF:     min      =    145.73
                                                   avg      =    191.15
                                                   max      =    200.00
Model F test:       Equal FMI              F( 10,  199.8)   =     11.36
Within VCE type:         OLS               Prob > F         =    0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	10479.41	8379.397	1.25	0.213	-6044.089	27002.9
Race						
AfrAm	21402.67	24153.7	0.89	0.377	-26225.97	69031.31
Race#c.LnNFLw3						
AfrAm	-18417.51	10480.76	-1.76	0.080	-39084.56	2249.534
Sex	55294.14	6273.363	8.81	0.000	42923.62	67664.65
w1Age	-496.9237	393.9652	-1.26	0.209	-1273.785	279.9377
Race	0	(omitted)				
PovStat	-4779.928	7207.978	-0.66	0.508	-18993.36	9433.506
TIME_V1SCAN	-11.70441	4.8309	-2.42	0.016	-21.23046	-2.178357
w1BMI	236.6033	492.4264	0.48	0.632	-735.6265	1208.833

w1currdrugs	2970.547	8014.526	0.37	0.711	-12869.17	18810.26
w1SRH	4128.505	3936.945	1.05	0.296	-3634.742	11891.75
_cons	399434.7	34977.52	11.42	0.000	330445.4	468424

524 .
525 . save, replace
    file **finaldata_imputed.dta** saved

526 .
527 .
528 .
529 . capture log close