```
                                                    __  __  __  __  ___(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 sample_final2==1 & Race==2,beta
   note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	67
				F(5, 61)	=	11.44
Model	3.4962e+11	5	6.9925e+10	Prob > F	=	0.0000
Residual	3.7283e+11	61	6.1120e+09	R-squared	=	0.4839
				Adj R-squared	=	0.4416
Total	7.2245e+11	66	1.0946e+10	Root MSE	=	78179

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-41478.97	25446	-1.63	0.108	-.1835216
Sex	127697.1	19615.73	6.51	0.000	.6065266
w1Age	-1676.428	1269.797	-1.32	0.192	-.1581991
Race	0	(omitted)			.
PovStat	23294.63	24262.02	0.96	0.341	.1084946
TIME_V1SCAN	-20.1077	18.35418	-1.10	0.278	-.1147828
_cons	1087313	76828.83	14.15	0.000	.

```
16 . reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN     if sample_final2==1 & Race==2,beta
   note: Race omitted because of collinearity.
```

Source	SS	df	MS	Number of obs	=	67
				F(5, 61)	=	11.21
Model	1.1579e+11	5	2.3157e+10	Prob > F	=	0.0000
Residual	1.2596e+11	61	2.0648e+09	R-squared	=	0.4790
				Adj R-squared	=	0.4363
Total	2.4174e+11	66	3.6627e+09	Root MSE	=	45441

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-18026.63	14790.17	-1.22	0.228	-.1378807
Sex	67625.55	11401.4	5.93	0.000	.5552767
w1Age	-1752.755	738.0538	-2.37	0.021	-.2859367
Race	0	(omitted)			.
PovStat	12136.05	14101.99	0.86	0.393	.0977146
TIME_V1SCAN	-10.04335	10.66814	-0.94	0.350	-.0991112
_cons	640389.8	44655.79	14.34	0.000	.

17 . reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if sample_final2==1 & Race==2,beta
   note: **Race** omitted because of collinearity.

Source	SS	df	MS			
				Number of obs	=	67
				F(5, 61)	=	8.02
Model	5.3304e+10	5	1.0661e+10	Prob > F	=	0.0000
Residual	8.1131e+10	61	1.3300e+09	R-squared	=	0.3965
				Adj R-squared	=	0.3470
Total	1.3443e+11	66	2.0369e+09	Root MSE	=	36469

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	-21148.23	11870.2	-1.78	0.080	-.2169114
Sex	49998.25	9150.457	5.46	0.000	.5505198
w1Age	-445.3266	592.3422	-0.75	0.455	-.0974197
Race	0	(omitted)			.
PovStat	3316.207	11317.88	0.29	0.771	.035805
TIME_V1SCAN	-6.826527	8.561962	-0.80	0.428	-.0903365
_cons	444222	35839.54	12.39	0.000	.

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

23 .
24 .
25 . //ANALYSIS A//
26 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                       Average RVI   =   0.0000
                                       Largest FMI   =   0.0000
                                       Complete DF   =   60
DF adjustment: **Small sample**   DF: min   =   58.10
                                               avg   =   58.10
                                               max   =   58.10
Model F test: **Equal FMI**   F(6,   58.1) =   9.41
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-46303.86	30026.72	-1.54	0.128	-106406.8	13799.04
Sex	126706.7	20021.62	6.33	0.000	86630.46	166782.9
w1Age	-1443.064	1486.032	-0.97	0.336	-4417.577	1531.449
Race	0	(omitted)				
PovStat	24199.26	24619.05	0.98	0.330	-25079.4	73477.91
TIME_V1SCAN	-20.51667	18.53924	-1.11	0.273	-57.62569	16.59235
w1BMI	-553.3687	1792.83	-0.31	0.759	-4141.982	3035.245
_cons	1102784	92216.74	11.96	0.000	918198.2	1287369

27 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

```
Multiple-imputation estimates              Imputations     =           5
Linear regression                          Number of obs   =          67
                                           Average RVI     =      0.0000
                                           Largest FMI     =      0.0000
                                           Complete DF     =          60
DF adjustment:   Small sample              DF:     min     =       58.10
                                                   avg     =       58.10
                                                   max     =       58.10
Model F test:        Equal FMI             F(   6,    58.1) =        9.20
Within VCE type:           OLS             Prob > F        =      0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-19278.28	17463.75	-1.10	0.274	-54234.55	15677.98
Sex	67368.63	11644.71	5.79	0.000	44060.02	90677.24
w1Age	-1692.216	864.2867	-1.96	0.055	-3422.214	37.78095
Race	0	(omitted)				
PovStat	12370.73	14318.61	0.86	0.391	-16290.07	41031.53
TIME_V1SCAN	-10.14945	10.78255	-0.94	0.350	-31.73231	11.43341
w1BMI	-143.5529	1042.722	-0.14	0.891	-2230.715	1943.61
_cons	644403.2	53633.89	12.01	0.000	537047.1	751759.4

28 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

```
Multiple-imputation estimates              Imputations     =           5
Linear regression                          Number of obs   =          67
                                           Average RVI     =      0.0000
                                           Largest FMI     =      0.0000
                                           Complete DF     =          60
DF adjustment:   Small sample              DF:     min     =       58.10
                                                   avg     =       58.10
                                                   max     =       58.10
Model F test:        Equal FMI             F(   6,    58.1) =        6.68
Within VCE type:           OLS             Prob > F        =      0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-25802.28	13970.56	-1.85	0.070	-53766.41	2161.855
Sex	49042.94	9315.477	5.26	0.000	30396.64	67689.24
w1Age	-220.2254	691.4076	-0.32	0.751	-1604.18	1163.729
Race	0	(omitted)				
PovStat	4188.807	11454.53	0.37	0.716	-18739.12	27116.73
TIME_V1SCAN	-7.221013	8.625767	-0.84	0.406	-24.48676	10.04473
w1BMI	-533.7752	834.1516	-0.64	0.525	-2203.453	1135.902
_cons	459145.2	42905.76	10.70	0.000	373263	545027.5

29 .

```
30 . save, replace
   file finaldata_imputed_final.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 sample_final2==1 & Race==1,beta
   note: Race omitted because of collinearity.
```

Source	SS	df	MS
Model	6.2304e+11	5	1.2461e+11
Residual	7.3638e+11	90	8.1820e+09
Total	1.3594e+12	95	1.4310e+10

Number of obs	= 96
F(5, 90)	= 15.23
Prob > F	= 0.0000
R-squared	= 0.4583
Adj R-squared	= 0.4282
Root MSE	= 90454

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	36935.9	23384.43	1.58	0.118	.1545142
Sex	154541.6	18762.92	8.24	0.000	.642401
w1Age	-3036.631	1328.884	-2.29	0.025	-.2206126
Race	0	(omitted)			.
PovStat	-22200.74	22898.86	-0.97	0.335	-.0807843
TIME_V1SCAN	-21.74411	15.55393	-1.40	0.166	-.1164381
_cons	1089158	72275.55	15.07	0.000	.

```
41 . reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN      if sample_final2==1 & Race==1,beta
   note: Race omitted because of collinearity.
```

Source	SS	df	MS
Model	1.7791e+11	5	3.5583e+10
Residual	1.9053e+11	90	2.1170e+09
Total	3.6844e+11	95	3.8783e+09

Number of obs	= 96
F(5, 90)	= 16.81
Prob > F	= 0.0000
R-squared	= 0.4829
Adj R-squared	= 0.4542
Root MSE	= 46011

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	10928.11	11894.75	0.92	0.361	.0878125
Sex	81283.99	9543.962	8.52	0.000	.6490196
w1Age	-2188.609	675.9516	-3.24	0.002	-.3054207
Race	0	(omitted)			.
PovStat	-16145.85	11647.76	-1.39	0.169	-.1128528
TIME_V1SCAN	-5.240479	7.911678	-0.66	0.509	-.0539034
_cons	658156	36763.75	17.90	0.000	.

42 . reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN   if sample_final2==1 & Race==1,beta
note: **Race** omitted because of collinearity.

Source	SS	df	MS
Model	1.1295e+11	5	2.2590e+10
Residual	1.9303e+11	90	2.1448e+09
Total	3.0598e+11	95	3.2209e+09

Number of obs	= 96
F(5, 90)	= 10.53
Prob > F	= 0.0000
R-squared	= 0.3691
Adj R-squared	= 0.3341
Root MSE	= 46312

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw1	19078.97	11972.69	1.59	0.115	.1682292
Sex	63837.46	9606.497	6.65	0.000	.5593237
w1Age	-1128.973	680.3806	-1.66	0.101	-.1728816
Race	0	(omitted)			.
PovStat	-10440.53	11724.08	-0.89	0.376	-.0800772
TIME_V1SCAN	-14.48675	7.963517	-1.82	0.072	-.1635126
_cons	430236.8	37004.64	11.63	0.000	.

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

48 .
49 .
50 .
51 . //ANALYSIS A//
52 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	96
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment:	**Small sample**	DF: min	=	87.07
		avg	=	87.07
		max	=	87.07
Model F test:	**Equal FMI**	F(6, 87.1)	=	12.67
Within VCE type:	**OLS**	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	37683.42	23497.87	1.60	0.112	-9020.638	84387.48
Sex	156078.6	18995.17	8.22	0.000	118324	193833.2
w1Age	-2965.146	1338.63	-2.22	0.029	-5625.791	-304.5011
Race	0	(omitted)				
PovStat	-22204.51	22978.84	-0.97	0.337	-67876.95	23467.94
TIME_V1SCAN	-20.45648	15.7494	-1.30	0.197	-51.75978	10.84682
w1BMI	906.4527	1480.988	0.61	0.542	-2037.141	3850.047
_cons	1052869	93678.05	11.24	0.000	866675.9	1239062

53 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	96
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment: **Small sample**		DF: min	=	87.07
		avg	=	87.07
		max	=	87.07
Model F test: **Equal FMI**		F(6, 87.1)	=	14.16
Within VCE type: **OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	11529.27	11914.66	0.97	0.336	-12152.16	35210.71
Sex	82520.07	9631.559	8.57	0.000	63376.51	101663.6
w1Age	-2131.12	678.7566	-3.14	0.002	-3480.208	-782.0324
Race	0	(omitted)				
PovStat	-16148.88	11651.49	-1.39	0.169	-39307.23	7009.471
TIME_V1SCAN	-4.204952	7.985778	-0.53	0.600	-20.07738	11.66748
w1BMI	728.9773	750.9396	0.97	0.334	-763.5808	2221.535
_cons	628972.2	47499.74	13.24	0.000	534562.3	723382

54 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	96
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment: **Small sample**		DF: min	=	87.07
		avg	=	87.07
		max	=	87.07
Model F test: **Equal FMI**		F(6, 87.1)	=	8.72
Within VCE type: **OLS**		Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	19318.45	12046.16	1.60	0.112	-4624.338	43261.24
Sex	64329.87	9737.857	6.61	0.000	44975.03	83684.71
w1Age	-1106.071	686.2476	-1.61	0.111	-2470.048	257.906
Race	0	(omitted)				
PovStat	-10441.73	11780.08	-0.89	0.378	-33855.67	12972.2
TIME_V1SCAN	-14.07423	8.073913	-1.74	0.085	-30.12184	1.973374
w1BMI	290.4027	759.2273	0.38	0.703	-1218.628	1799.433
_cons	418610.9	48023.96	8.72	0.000	323159	514062.7

55 .

```
56 . save, replace
   file finaldata_imputed_final.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   if sample_final2==1
```

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        163
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =        154
DF adjustment:    Small sample             DF:    min      =     152.04
                                                  avg      =     152.04
                                                  max      =     152.04
Model F test:     Equal FMI                F(  8,  152.0)  =      19.06
Within VCE type:        OLS                Prob > F        =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	36693.3	20278.95	1.81	0.072	-3371.617	76758.21
Race						
AfrAm	73467.43	58477.9	1.26	0.211	-42066.77	189001.6
Race#c.LnNFLw1						
AfrAm	-71312.76	29121.38	-2.45	0.015	-128847.6	-13777.94
Sex	143536.7	13837.57	10.37	0.000	116197.9	170875.4
w1Age	-2589.868	931.8439	-2.78	0.006	-4430.902	-748.8332
Race	0	(omitted)				
PovStat	-2977.234	16582.18	-0.18	0.858	-35738.48	29784.01
TIME_V1SCAN	-18.59111	11.7497	-1.58	0.116	-41.80487	4.622653
w1BMI	624.4931	1087.021	0.57	0.566	-1523.124	2772.11
_cons	1035233	67534.25	15.33	0.000	901805.9	1168659

```
65 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI   if sample_final2==1
```

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        163
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =        154
DF adjustment:    Small sample             DF:    min      =     152.04
                                                  avg      =     152.04
                                                  max      =     152.04
Model F test:     Equal FMI                F(  8,  152.0)  =      21.29
Within VCE type:        OLS                Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	13587.68	10822.1	1.26	0.211	-7793.433	34968.79
Race						
AfrAm	11213.37	31207.42	0.36	0.720	-50442.81	72869.55
Race#c.LnNFLw1						
AfrAm	-29092.64	15540.97	-1.87	0.063	-59796.77	1611.492
Sex	76011.7	7384.581	10.29	0.000	61422.05	90601.34
w1Age	-2146.187	497.2894	-4.32	0.000	-3128.677	-1163.698
Race	0	(omitted)				
PovStat	-4286.465	8849.275	-0.48	0.629	-21769.89	13196.96
TIME_V1SCAN	-5.781934	6.270364	-0.92	0.358	-18.17023	6.606361
w1BMI	465.6944	580.1016	0.80	0.423	-680.4065	1611.795
_cons	630464.8	36040.44	17.49	0.000	559260.1	701669.5

66 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI   if sample_final2==1

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        163
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =        154
DF adjustment:   Small sample              DF:     min     =     152.04
                                                   avg     =     152.04
                                                   max     =     152.04
Model F test:       Equal FMI              F(   8,  152.0) =      12.18
Within VCE type:          OLS              Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16950.31	10078.56	1.68	0.095	-2961.794	36862.41
Race						
AfrAm	49877.78	29063.28	1.72	0.088	-7542.246	107297.8
Race#c.LnNFLw1						
AfrAm	-34996.86	14473.21	-2.42	0.017	-63591.43	-6402.284
Sex	57896.3	6877.216	8.42	0.000	44309.05	71483.55
w1Age	-820.1522	463.1226	-1.77	0.079	-1735.139	94.83448
Race	0	(omitted)				
PovStat	-4197.588	8241.276	-0.51	0.611	-20479.8	12084.62
TIME_V1SCAN	-10.63332	5.839552	-1.82	0.071	-22.17046	.9038298
w1BMI	149.8669	540.2451	0.28	0.782	-917.49	1217.224
_cons	408724.3	33564.25	12.18	0.000	342411.7	475036.8

```
67 .
68 . save, replace
   file finaldata_imputed_final.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_final,clear

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

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                              Average RVI   =   0.0071
                                              Largest FMI   =   0.0363
                                              Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   53.40
                                                       avg   =   55.40
                                                       max   =   56.03
Model F test: **Equal FMI**   F(8,   56.1)   =   7.83
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-61943.6	31030.69	-2.00	0.051	-124117.7	230.5021
Sex	123800	19957.13	6.20	0.000	83817.01	163783
w1Age	-443.8861	1551.018	-0.29	0.776	-3551.667	2663.895
Race	0	(omitted)				
PovStat	25807.18	24196.46	1.07	0.291	-22664	74278.36
TIME_V1SCAN	-25.4918	18.35983	-1.39	0.170	-62.27053	11.28692
w1BMI	-1082.537	1786.633	-0.61	0.547	-4662.221	2497.146
w1dxDiabetes	-37423.12	18383.94	-2.04	0.047	-74290.21	-556.0278
w1Glucose	729.5367	524.7431	1.39	0.170	-321.9134	1780.987
_cons	1057558	99755.4	10.60	0.000	857691.6	1257424

```
83 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if sample_final2==1 &
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                              Average RVI   =   0.0085
                                              Largest FMI   =   0.0362
                                              Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   53.41
                                                       avg   =   55.02
                                                       max   =   55.95
Model F test: **Equal FMI**   F(8,   56.0)   =   8.20
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-30685.32	17842.84	-1.72	0.091	-66451.53	5080.884
Sex	65372.02	11427.31	5.72	0.000	42474.86	88269.18
w1Age	-974.3995	891.576	-1.09	0.279	-2761.62	812.821
Race	0	(omitted)				
PovStat	13592.17	13829.45	0.98	0.330	-14112.36	41296.7
TIME_V1SCAN	-13.71368	10.49293	-1.31	0.197	-34.73392	7.306556
w1BMI	-521.4301	1024.922	-0.51	0.613	-2575.506	1532.646
w1dxDiabetes	-26608.04	10495.67	-2.54	0.014	-47655.96	-5560.128
w1Glucose	500.2632	300.3416	1.67	0.101	-101.6279	1102.154
_cons	614079.8	56920.15	10.79	0.000	500042.8	728116.9

84 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                             Average RVI   =   0.0096
                                             Largest FMI   =   0.0736
                                             Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   49.26
                                                      avg   =   55.02
                                                      max   =   56.07
Model F test: **Equal FMI**   F(8,   56.0) =   5.19
Within VCE type: **OLS**   Prob > F   =   0.0001

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-30465.83	14678.18	-2.08	0.043	-59870.02	-1061.643
Sex	48124.38	9455.137	5.09	0.000	29183.42	67065.35
w1Age	83.44471	734.1653	0.11	0.910	-1387.371	1554.261
Race	0	(omitted)				
PovStat	4639.091	11480.23	0.40	0.688	-18357.91	27636.09
TIME_V1SCAN	-8.739882	8.714447	-1.00	0.320	-26.19667	8.716908
w1BMI	-694.7576	845.3516	-0.82	0.415	-2388.21	998.6953
w1dxDiabetes	-11549.27	8889.165	-1.30	0.200	-29410.36	6311.831
w1Glucose	233.7962	250.5585	0.93	0.355	-268.4482	736.0405
_cons	444278.4	47363.65	9.38	0.000	349381.6	539175.1

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

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

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

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   96
                                            Average RVI   =   0.0000
                                            Largest FMI   =   0.0000
                                            Complete DF   =   87
DF adjustment: **Small sample**   DF: min   =   85.07
                                                    avg   =   85.07
                                                    max   =   85.07
Model F test: **Equal FMI**   F(8,   85.1)   =   10.03
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**49475.79**	**25761.54**	**1.92**	**0.058**	**-1744.479**	**100696.1**
Sex	**154680.2**	**19476.5**	**7.94**	**0.000**	**115956.1**	**193404.2**
w1Age	**-3331.719**	**1345.772**	**-2.48**	**0.015**	**-6007.444**	**-655.9944**
Race	**0**	(omitted)				
PovStat	**-22622.22**	**23105.69**	**-0.98**	**0.330**	**-68562**	**23317.55**
TIME_V1SCAN	**-19.58588**	**16.11335**	**-1.22**	**0.228**	**-51.62316**	**12.45141**
w1BMI	**930.4501**	**1535.89**	**0.61**	**0.546**	**-2123.277**	**3984.177**
w1dxDiabetes	**29858.82**	**19869.56**	**1.50**	**0.137**	**-9646.74**	**69364.39**
w1Glucose	**-742.8502**	**433.8912**	**-1.71**	**0.091**	**-1605.532**	**119.832**
_cons	**1109938**	**99703.82**	**11.13**	**0.000**	**911702.7**	**1308174**

97 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   96
                                            Average RVI   =   0.0000
                                            Largest FMI   =   0.0000
                                            Complete DF   =   87
DF adjustment: **Small sample**   DF: min   =   85.07
                                                    avg   =   85.07
                                                    max   =   85.07
Model F test: **Equal FMI**   F(8,   85.1)   =   10.91
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**14670.81**	**13135.44**	**1.12**	**0.267**	**-11445.68**	**40787.29**
Sex	**81027.71**	**9930.789**	**8.16**	**0.000**	**61282.87**	**100772.6**
w1Age	**-2275.088**	**686.1898**	**-3.32**	**0.001**	**-3639.401**	**-910.774**
Race	**0**	(omitted)				
PovStat	**-17011.11**	**11781.26**	**-1.44**	**0.152**	**-40435.14**	**6412.921**
TIME_V1SCAN	**-3.109263**	**8.215965**	**-0.38**	**0.706**	**-19.44462**	**13.22609**
w1BMI	**653.5217**	**783.1284**	**0.83**	**0.406**	**-903.5297**	**2210.573**
w1dxDiabetes	**14283.9**	**10131.2**	**1.41**	**0.162**	**-5859.422**	**34427.22**
w1Glucose	**-279.41**	**221.2349**	**-1.26**	**0.210**	**-719.2793**	**160.4593**
_cons	**655429.7**	**50837.55**	**12.89**	**0.000**	**554352.2**	**756507.2**

98 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   96
                                                  Average RVI   =   0.0000
                                                  Largest FMI   =   0.0000
                                                  Complete DF   =   87
DF adjustment: **Small sample**   DF: min   =   85.07
                                                           avg   =   85.07
                                                           max   =   85.07
Model F test: **Equal FMI**   F(8,   85.1)   =   6.82
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	25509.33	13284.09	1.92	0.058	-902.6908	51921.36
Sex	64467.48	10043.17	6.42	0.000	44499.2	84435.77
w1Age	-1262.466	693.9549	-1.82	0.072	-2642.219	117.2869
Race	0	(omitted)				
PovStat	-10076.42	11914.58	-0.85	0.400	-33765.53	13612.69
TIME_V1SCAN	-14.2896	8.308939	-1.72	0.089	-30.80981	2.230606
w1BMI	366.7196	791.9905	0.46	0.645	-1207.952	1941.391
w1dxDiabetes	10748.2	10245.85	1.05	0.297	-9623.066	31119.47
w1Glucose	-326.5327	223.7385	-1.46	0.148	-771.3797	118.3143
_cons	439810.4	51412.84	8.55	0.000	337589	542031.7

99 .
100 .
101 . save, replace
   file **finaldata_imputed_final.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 if sa

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   163
                                                  Average RVI   =   0.0054
                                                  Largest FMI   =   0.0579
                                                  Complete DF   =   152
DF adjustment: **Small sample**   DF: min   =   127.72
                                                           avg   =   147.30
                                                           max   =   150.03
Model F test: **Equal FMI**   F(10, 150.0)   =   15.05
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	41806.46	21866.89	1.91	0.058	-1400.52	85013.45
Race						
AfrAm	82916.29	60725.05	1.37	0.174	-37070.49	202903.1
Race#c.LnNFLw1						
AfrAm	-76426.11	30382.38	-2.52	0.013	-136458.7	-16393.5
Sex	145088.1	14163.62	10.24	0.000	117102.1	173074.1

w1Age	-2638.286	957.6928	-2.75	0.007	-4530.629	-745.9426
Race	0	(omitted)				
PovStat	-2082.951	16749.11	-0.12	0.901	-35177.56	31011.66
TIME_V1SCAN	-19.44834	12.00078	-1.62	0.107	-43.16087	4.264189
w1BMI	775.4037	1119.379	0.69	0.490	-1436.383	2987.19
w1dxDiabetes	1016.993	13938.63	0.07	0.942	-26563.53	28597.52
w1Glucose	-183.8945	336.992	-0.55	0.586	-849.9866	482.1976
_cons	1039263	71616.81	14.51	0.000	897747.3	1180779

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

Multiple-imputation estimates

Linear regression

Imputations	=	5
Number of obs	=	163
Average RVI	=	0.0021
Largest FMI	=	0.0225
Complete DF	=	152

DF adjustment: **Small sample**

DF:	min	=	144.24
	avg	=	149.29
	max	=	150.04

Model F test: **Equal FMI**

Within VCE type: **OLS**

F(10, 150.0)	=	16.85
Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	14067.36	11671.94	1.21	0.230	-8995.269	37129.98
Race						
AfrAm	13999.9	32417.48	0.43	0.666	-50053.84	78053.65
Race#c.LnNFLw1						
AfrAm	-30448.67	16219.84	-1.88	0.062	-62497.49	1600.146
Sex	76638.25	7561.371	10.14	0.000	61697.68	91578.82
w1Age	-2101.411	510.9212	-4.11	0.000	-3110.948	-1091.874
Race	0	(omitted)				
PovStat	-3881.497	8941.28	-0.43	0.665	-21548.59	13785.59
TIME_V1SCAN	-6.396021	6.404912	-1.00	0.320	-19.05152	6.25948
w1BMI	514.7808	597.6083	0.86	0.390	-666.037	1695.599
w1dxDiabetes	-3748.086	7311.868	-0.51	0.609	-18200.34	10704.17
w1Glucose	22.31214	178.6164	0.12	0.901	-330.6482	375.2725
_cons	624903.8	38172.91	16.37	0.000	549476.1	700331.4

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

Multiple-imputation estimates

Linear regression

Imputations	=	5
Number of obs	=	163
Average RVI	=	0.0072
Largest FMI	=	0.0771
Complete DF	=	152

DF adjustment: **Small sample**

DF:	min	=	116.97
	avg	=	145.96
	max	=	150.03

Model F test: **Equal FMI**

Within VCE type: **OLS**

F(10, 150.0)	=	9.63
Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	19787.3	10864.97	1.82	0.071	-1680.942	41255.54
Race						
AfrAm	54447.78	30169.98	1.80	0.073	-5165.188	114060.8
Race#c.LnNFLw1						
AfrAm	-37520.91	15094.71	-2.49	0.014	-67346.59	-7695.237
Sex	58593.04	7036.647	8.33	0.000	44689.28	72496.8
w1Age	-864.2824	476.0225	-1.82	0.071	-1804.883	76.31824
Race	0	(omitted)				
PovStat	-3814.806	8321.411	-0.46	0.647	-20257.11	12627.5
TIME_V1SCAN	-10.92344	5.963049	-1.83	0.069	-22.70595	.8590756
w1BMI	221.6768	556.1149	0.40	0.691	-877.1534	1320.507
w1dxDiabetes	1896.456	6991.863	0.27	0.787	-11950.6	15743.51
w1Glucose	-115.6844	168.1079	-0.69	0.492	-448.0292	216.6604
_cons	413013.6	35611.8	11.60	0.000	342642.6	483384.5

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

114 .
115 .
116 . ***********MODEL 4: MODEL 2+liver/kidney disease******
117 .
118 . //AFRICAN-AMERICAN//
119 .
120 . use finaldata_imputed_final,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   =   67
                                     Average RVI   =   0.0962
                                     Largest FMI   =   0.5728
                                     Complete DF   =   55
DF adjustment: **Small sample**   DF: min   =   9.66
                                              avg   =   45.66
                                              max   =   52.81
Model F test: **Equal FMI**   F(11, 51.9)   =   5.14
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-49824.75	31399.62	-1.59	0.119	-112899.9	13250.45
Sex	164291.5	29634.85	5.54	0.000	103595.5	224987.6
w1Age	-729.9707	1703.983	-0.43	0.670	-4150.663	2690.722
Race	0	(omitted)				
PovStat	26646.28	24986	1.07	0.291	-23479.79	76772.34
TIME_V1SCAN	-21.83751	19.12328	-1.14	0.259	-60.21663	16.54161
w1BMI	934.1542	2041.212	0.46	0.649	-3174.545	5042.854
w1Creatinine	-53047.46	65853.52	-0.81	0.440	-200479.6	94384.69
w1USpecGrav	-104133.1	1598456	-0.07	0.948	-3311056	3102789
w1BUN	329.6467	3645.869	0.09	0.928	-6995.835	7655.128
w1ALP	675.0058	544.4606	1.24	0.221	-417.5344	1767.546

w1UricAcid	-12651.6	8896.29	-1.42	0.161	-30496.8	5193.598
_cons	1150550	1626638	0.71	0.482	-2112771	4413872

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	=	67
		Average RVI	=	0.0711
		Largest FMI	=	0.5086
		Complete DF	=	55
DF adjustment:	**Small sample**	DF: min	=	11.74
		avg	=	47.25
		max	=	53.00
Model F test:	**Equal FMI**	F(11, 52.3)	=	4.97
Within VCE type:	**OLS**	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-23879.41	18229.34	-1.31	0.196	-60458.63	12699.81
Sex	84792.38	16880.21	5.02	0.000	50497.27	119087.5
w1Age	-1407.89	996.7196	-1.41	0.164	-3407.949	592.1677
Race	0	(omitted)				
PovStat	14975.89	14685.9	1.02	0.313	-14485.5	44437.28
TIME_V1SCAN	-11.34445	11.17961	-1.01	0.315	-33.77241	11.0835
w1BMI	427.4122	1180.185	0.36	0.719	-1943.32	2798.144
w1Creatinine	-12065.59	36509.7	-0.33	0.747	-91808.46	67677.28
w1USpecGrav	-279319.9	935943	-0.30	0.767	-2156599	1597959
w1BUN	1255.811	2127.442	0.59	0.558	-3015.54	5527.162
w1ALP	385.0384	319.3351	1.21	0.233	-255.6381	1025.715
w1UricAcid	-7518.923	5231.532	-1.44	0.157	-18012.86	2975.009
_cons	891530	953003.5	0.94	0.354	-1019955	2803015

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	=	67
		Average RVI	=	0.1133
		Largest FMI	=	0.6008
		Complete DF	=	55
DF adjustment:	**Small sample**	DF: min	=	8.88
		avg	=	44.67
		max	=	52.66
Model F test:	**Equal FMI**	F(11, 51.6)	=	3.64
Within VCE type:	**OLS**	Prob > F	=	0.0007

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-26322.43	14796.14	-1.78	0.082	-56076.09	3431.23
Sex	65664	13933.72	4.71	0.000	37067.81	94260.19
w1Age	8.911254	799.6669	0.01	0.991	-1597.188	1615.01
Race	0	(omitted)				
PovStat	4641.422	11684.51	0.40	0.693	-18802.5	28085.35
TIME_V1SCAN	-7.722172	8.983771	-0.86	0.394	-25.76152	10.31718
w1BMI	153.6543	962.5297	0.16	0.874	-1786.788	2094.097
w1Creatinine	-32483.48	31620.95	-1.03	0.331	-104160.7	39193.72
w1USpecGrav	-31919.44	749390.9	-0.04	0.966	-1535848	1472009
w1BUN	84.31624	1705.993	0.05	0.961	-3344.423	3513.056
w1ALP	250.3045	255.6615	0.98	0.332	-262.9619	763.571
w1UricAcid	-4347.335	4156.816	-1.05	0.300	-12686.1	3991.432
_cons	473245.2	762194.7	0.62	0.537	-1056244	2002734

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

130 .
131 .
132 .
133 . //WHITES//
134 .
135 . use finaldata_imputed_final,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 =	96
	Average RVI =	0.0181
	Largest FMI =	0.1864
	Complete DF =	84
DF adjustment: **Small sample**	DF: min =	45.47
	avg =	77.80
	max =	82.00
Model F test: **Equal FMI**	F(11, 81.9) =	7.98
Within VCE type: **OLS**	Prob > F =	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	30142.67	23860.22	1.26	0.210	-17325.97	77611.3
Sex	180319.3	25399.18	7.10	0.000	129732.1	230906.5
w1Age	-2531.676	1347.454	-1.88	0.064	-5212.192	148.8398
Race	0	(omitted)				
PovStat	-22403.29	22830.76	-0.98	0.329	-67821.54	23014.95
TIME_V1SCAN	-26.29061	15.84411	-1.66	0.101	-57.81123	5.230008
w1BMI	2272.531	1629.786	1.39	0.167	-969.6446	5514.707
w1Creatinine	15377.81	61370.97	0.25	0.803	-108194.6	138950.3
w1USpecGrav	2089916	1886126	1.11	0.271	-1663094	5842927
w1BUN	-37.85673	2713.422	-0.01	0.989	-5440.064	5364.35
w1ALP	173.9681	441.9396	0.39	0.695	-705.2214	1053.158
w1UricAcid	-21222.07	7949.64	-2.67	0.009	-37036.65	-5407.479
_cons	-1056648	1892394	-0.56	0.578	-4822175	2708879

```
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 =	96
	Average RVI =	0.0297
	Largest FMI =	0.2785
	Complete DF =	84
DF adjustment: **Small sample**	DF: min =	31.19
	avg =	76.37
	max =	82.04
Model F test: **Equal FMI**	F(11, 81.7) =	8.31
Within VCE type: **OLS**	Prob > F =	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	7752.371	12264.94	0.63	0.529	-16649.26	32154
Sex	91750.68	13115.96	7.00	0.000	65614.37	117887
w1Age	-2035.129	691.8287	-2.94	0.004	-3411.402	-658.8553
Race	0	(omitted)				
PovStat	-16617.22	11712.74	-1.42	0.160	-39917.4	6682.96
TIME_V1SCAN	-6.982421	8.138851	-0.86	0.393	-23.17439	9.209551
w1BMI	1252.81	837.3853	1.50	0.138	-413.0679	2918.689
w1Creatinine	11411.06	33152.67	0.34	0.733	-56187.29	79009.42
w1USpecGrav	981817	964099	1.02	0.312	-936206.3	2899840
w1BUN	184.2143	1398.793	0.13	0.896	-2601.529	2969.958
w1ALP	194.6267	227.1485	0.86	0.394	-257.2789	646.5323
w1UricAcid	-8999.576	4086.36	-2.20	0.030	-17129.12	-870.0354
_cons	-369792.7	967331.2	-0.38	0.703	-2294266	1554681

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   =   96
                                             Average RVI   =   0.0042
                                             Largest FMI   =   0.0401
                                             Complete DF   =   84
DF adjustment: **Small sample**   DF: min   =   76.75
                                                      avg   =   81.44
                                                      max   =   82.07
Model F test: **Equal FMI**   F(11,   82.0) =   5.70
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16374.43	12278.85	1.33	0.186	-8052.393	40801.26
Sex	78937.9	12855.84	6.14	0.000	53360.95	104514.8
w1Age	-841.4639	694.276	-1.21	0.229	-2222.585	539.6569
Race	0	(omitted)				
PovStat	-9746.673	11758.71	-0.83	0.410	-33138.22	13644.88
TIME_V1SCAN	-16.24007	8.152351	-1.99	0.050	-32.45762	-.0225216
w1BMI	1071.983	839.8222	1.28	0.205	-598.6829	2742.65
w1Creatinine	-85.69677	29370.41	-0.00	0.998	-58572.74	58401.34
w1USpecGrav	703866.5	967930.2	0.73	0.469	-1221778	2629511
w1BUN	-115.6474	1378.024	-0.08	0.933	-2857.072	2625.777
w1ALP	35.58694	227.7228	0.16	0.876	-417.4385	488.6124
w1UricAcid	-10623.85	4094.695	-2.59	0.011	-18769.43	-2478.257
_cons	-289152.9	970890.6	-0.30	0.767	-2220686	1642381

143 .
144 . save, replace
    file **finaldata_imputed_final.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	=	163	
			Average RVI	=	0.0230	
			Largest FMI	=	0.2458	
			Complete DF	=	149	
DF adjustment:	**Small sample**		DF: min	=	46.78	
			avg	=	137.66	
			max	=	146.90	
Model F test:	**Equal FMI**		F(13, 146.6)	=	12.82	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**29995.01**	**20426.11**	**1.47**	**0.144**	**-10372.37**	**70362.39**
Race						
AfrAm	**58571.42**	**59116.31**	**0.99**	**0.323**	**-58261.26**	**175404.1**
Race#c.LnNFLw1						
AfrAm	**-60183.01**	**29267.78**	**-2.06**	**0.042**	**-118024.6**	**-2341.387**
Sex	**174758.6**	**18078.33**	**9.67**	**0.000**	**138990.9**	**210526.3**
w1Age	**-1996.521**	**962.6057**	**-2.07**	**0.040**	**-3898.886**	**-94.15612**
Race	**0**	(omitted)				
PovStat	**-2475.925**	**16443.8**	**-0.15**	**0.881**	**-34972.9**	**30021.05**
TIME_V1SCAN	**-18.74235**	**11.63173**	**-1.61**	**0.109**	**-41.73008**	**4.245374**
w1BMI	**1974.567**	**1195.572**	**1.65**	**0.101**	**-388.3382**	**4337.472**
w1Creatinine	**-31790.01**	**39045.76**	**-0.81**	**0.420**	**-110349.7**	**46769.67**
w1USpecGrav	**606742.9**	**1195742**	**0.51**	**0.613**	**-1756372**	**2969858**
w1BUN	**589.432**	**2081.898**	**0.28**	**0.778**	**-3526.754**	**4705.618**
w1ALP	**323.6457**	**331.1732**	**0.98**	**0.330**	**-330.8414**	**978.1328**
w1UricAcid	**-16546.6**	**5819.676**	**-2.84**	**0.005**	**-28047.87**	**-5045.333**
_cons	**402077.9**	**1203720**	**0.33**	**0.739**	**-1976802**	**2780958**

```
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	=	163	
			Average RVI	=	0.0155	
			Largest FMI	=	0.1860	
			Complete DF	=	149	
DF adjustment:	**Small sample**		DF: min	=	64.06	
			avg	=	139.54	
			max	=	146.98	
Model F test:	**Equal FMI**		F(13, 146.8)	=	14.00	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	9124.392	10972.53	0.83	0.407	-12560.23	30809.02
Race						
AfrAm	5769.944	31738.28	0.18	0.856	-56954.28	68494.17
Race#c.LnNFLw1						
AfrAm	-24250.76	15710.37	-1.54	0.125	-55298.57	6797.044
Sex	89741.79	9654.391	9.30	0.000	70648.3	108835.3
w1Age	-1947.314	516.6682	-3.77	0.000	-2968.373	-926.2555
Race	0	(omitted)				
PovStat	-3883.555	8830.7	-0.44	0.661	-21335.1	13567.99
TIME_V1SCAN	-6.122703	6.242909	-0.98	0.328	-18.46032	6.214915
w1BMI	1038.002	640.6469	1.62	0.107	-228.0894	2304.094
w1Creatinine	-7361.502	20295.17	-0.36	0.718	-47904.98	33181.97
w1USpecGrav	249461	643839.8	0.39	0.699	-1023011	1521934
w1BUN	713.3689	1114.201	0.64	0.523	-1489.183	2915.921
w1ALP	266.7589	177.7682	1.50	0.136	-84.55407	618.0718
w1UricAcid	-7886.115	3123.371	-2.52	0.013	-14058.64	-1713.585
_cons	358168.6	648213.5	0.55	0.581	-922951.2	1639288

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

Multiple-imputation estimates
Linear regression

Imputations	=	5
Number of obs	=	163
Average RVI	=	0.0388
Largest FMI	=	0.3538
Complete DF	=	149

DF adjustment: **Small sample**

DF:	min	=	28.26
	avg	=	132.97
	max	=	146.80

Model F test: **Equal FMI**   F(13, 146.1) = 8.22
Within VCE type: **OLS**   Prob > F   = 0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	14964.8	10207.86	1.47	0.145	-5209.578	35139.18
Race						
AfrAm	44256.65	29552.06	1.50	0.136	-14151.33	102664.6
Race#c.LnNFLw1						
AfrAm	-30577.94	14621.32	-2.09	0.038	-59475.12	-1680.761
Sex	73855.01	9178.2	8.05	0.000	55665.96	92044.06
w1Age	-525.1406	481.5598	-1.09	0.277	-1476.902	426.621
Race	0	(omitted)				
PovStat	-3803.84	8202.206	-0.46	0.644	-20013.5	12405.82
TIME_V1SCAN	-10.49254	5.806542	-1.81	0.073	-21.96825	.9831698
w1BMI	846.371	599.6453	1.41	0.160	-338.9795	2031.722
w1Creatinine	-22118.61	20773.59	-1.06	0.296	-64653.6	20416.37
w1USpecGrav	111963.9	600762.8	0.19	0.852	-1075565	1299492
w1BUN	141.2378	1051.551	0.13	0.893	-1939.515	2221.991
w1ALP	97.11619	165.3145	0.59	0.558	-229.5965	423.8289
w1UricAcid	-7521.814	2906.351	-2.59	0.011	-13265.74	-1777.888
_cons	291311.4	604732.7	0.48	0.631	-904060.7	1486683

```
153 .
154 .
155 . save, replace
    file finaldata_imputed_final.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   =   163
                                                 Average RVI   =   0.0265
                                                 Largest FMI   =   0.2720
                                                 Complete DF   =   150
DF adjustment: **Small sample**   DF: min   =   41.19
                                                        avg   =   137.16
                                                        max   =   147.92
Model F test: **Equal FMI**   F(12, 147.5) =   13.21
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	9329.772	17979.31	0.52	0.605	-26200.16	44859.7
Sex	176357	18297.14	9.64	0.000	140151.7	212562.2
w1Age	-2023.82	972.2186	-2.08	0.039	-3945.052	-102.5874
Race	-58786.47	15506.58	-3.79	0.000	-89434.87	-28138.08
PovStat	-1655.043	16617.63	-0.10	0.921	-34493.78	31183.69
TIME_V1SCAN	-17.53062	11.7397	-1.49	0.138	-40.73034	5.669101
w1BMI	2238.811	1199.784	1.87	0.064	-132.2111	4609.833
w1Creatinine	-25399.46	39853.81	-0.64	0.527	-105874.6	55075.71
w1USpecGrav	900230	1199887	0.75	0.454	-1470943	3271403
w1BUN	387.7648	2101.515	0.18	0.854	-3766.948	4542.477
w1ALP	287.6616	334.0214	0.86	0.391	-372.4086	947.7319
w1UricAcid	-18119.04	5830.139	-3.11	0.002	-29640.3	-6597.784
_cons	202246.3	1209076	0.17	0.867	-2187084	2591577

```
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   =   163
                                                 Average RVI   =   0.0187
                                                 Largest FMI   =   0.2080
                                                 Complete DF   =   150
DF adjustment: **Small sample**   DF: min   =   57.08
                                                        avg   =   139.21
                                                        max   =   148.00
Model F test: **Equal FMI**   F(12, 147.7) =   14.79
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	798.5513	9598.006	0.08	0.934	-18168.56	19765.66
Sex	90387.43	9704.484	9.31	0.000	71193.97	109580.9
w1Age	-1958.404	519.1432	-3.77	0.000	-2984.302	-932.5055
Race	-41519.29	8255.397	-5.03	0.000	-57834.45	-25204.12
PovStat	-3553.775	8870.033	-0.40	0.689	-21082.11	13974.56
TIME_V1SCAN	-5.633947	6.264717	-0.90	0.370	-18.01401	6.746118
w1BMI	1144.569	639.8681	1.79	0.076	-119.9132	2409.052
w1Creatinine	-4799.462	20527.23	-0.23	0.816	-45903.32	36304.4
w1USpecGrav	367834.4	641723.4	0.57	0.567	-900362.5	1636031
w1BUN	632.0936	1117.588	0.57	0.573	-1576.995	2841.182

w1ALP	252.2629	178.2857	1.41	0.159	-100.0515	604.5773
w1UricAcid	-8519.256	3110.897	-2.74	0.007	-14666.8	-2371.71
_cons	295369	646698.1	0.46	0.649	-982661.5	1573399

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   =   163
                                                Average RVI   =   0.0408
                                                Largest FMI   =   0.3628
                                                Complete DF   =   150
DF adjustment: **Small sample**   DF: min   =   27.25
                                                       avg   =   132.74
                                                       max   =   147.90
Model F test: **Equal FMI**   F(12, 146.9)   =   8.35
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
LnNFLw1	4464.218	8979.07	0.50	0.620	-13280.18	22208.62
Sex	74665.15	9290.863	8.04	0.000	56249.64	93080.65
w1Age	-538.9607	486.1341	-1.11	0.269	-1499.669	421.7477
Race	-15371.48	7767.688	-1.98	0.050	-30726.51	-16.44161
PovStat	-3386.286	8289.729	-0.41	0.684	-19767.9	12995.33
TIME_V1SCAN	-9.877103	5.861904	-1.68	0.094	-21.46146	1.707255
w1BMI	980.5584	601.6489	1.63	0.105	-208.5959	2169.713
w1Creatinine	-18858.63	21020.91	-0.90	0.378	-61971.5	24254.24
w1USpecGrav	260981.5	602398.1	0.43	0.665	-929656.4	1451619
w1BUN	38.69651	1061.45	0.04	0.971	-2061.415	2138.808
w1ALP	78.82853	166.7606	0.47	0.637	-250.7164	408.3734
w1UricAcid	-8321.065	2910.302	-2.86	0.005	-14072.33	-2569.798
_cons	175379.4	606940.4	0.29	0.773	-1024231	1374989

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

164 .
165 . ***********MODEL 5: MODEL2+OXIDATIVE STRESS******
166 .
167 . //Overall//
168 .
169 . use finaldata_imputed_final,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   =   163
                                                Average RVI   =   0.0092
                                                Largest FMI   =   0.0814
                                                Complete DF   =   152
DF adjustment: **Small sample**   DF: min   =   114.53
                                                       avg   =   145.96
                                                       max   =   149.99
Model F test: **Equal FMI**   F(10, 149.9)   =   14.00
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	9013.723	18697.31	0.48	0.630	-27931.81	45959.26
Sex	146772.1	14541.23	10.09	0.000	118039.9	175504.3
w1Age	-2715.268	951.7821	-2.85	0.005	-4595.904	-834.6326
Race	-63980.45	17291.97	-3.70	0.000	-98155.57	-29805.34
PovStat	-2068.22	17007.47	-0.12	0.903	-35673.61	31537.17
TIME_V1SCAN	-15.52147	12.31394	-1.26	0.209	-39.85294	8.810002
w1BMI	818.3685	1163.655	0.70	0.483	-1480.912	3117.649
w1TotalD	363.5096	848.3177	0.43	0.669	-1316.917	2043.936
w1Albumin	4146.95	27996.37	0.15	0.882	-51171.24	59465.14
w1EosinPct	-3822.918	3694.515	-1.03	0.302	-11124.26	3478.423
_cons	1129953	156265.6	7.23	0.000	821182.4	1438724

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      =        163
                                         Average RVI        =     0.0051
                                         Largest FMI        =     0.0470
                                         Complete DF        =        152
DF adjustment:    Small sample           DF:      min       =     133.43
                                                  avg       =     148.13
                                                  max       =     150.01
Model F test:         Equal FMI          F(  10,  150.0)    =      16.08
Within VCE type:            OLS          Prob > F           =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	3638.36	9917.107	0.37	0.714	-15957.29	23234.01
Sex	76034.11	7717.9	9.85	0.000	60784.26	91283.96
w1Age	-2203.377	505.1962	-4.36	0.000	-3201.596	-1205.158
Race	-44417.97	9143.202	-4.86	0.000	-62485.86	-26350.08
PovStat	-4067.756	9025.853	-0.45	0.653	-21902	13766.49
TIME_V1SCAN	-4.083533	6.535122	-0.62	0.533	-16.99639	8.829323
w1BMI	666.7024	617.6477	1.08	0.282	-553.7116	1887.116
w1TotalD	80.63806	442.6836	0.18	0.856	-794.9473	956.2234
w1Albumin	9361.64	14861.93	0.63	0.530	-20004.1	38727.38
w1EosinPct	-540.3312	1955.005	-0.28	0.783	-4403.561	3322.899
_cons	647893.9	82918.55	7.81	0.000	484053.6	811734.3

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      =        163
                                         Average RVI        =     0.0089
                                         Largest FMI        =     0.0719
                                         Complete DF        =        152
DF adjustment:    Small sample           DF:      min       =     119.93
                                                  avg       =     146.31
                                                  max       =     149.98
Model F test:         Equal FMI          F(  10,  149.9)    =       9.01
Within VCE type:            OLS          Prob > F           =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	2527.272	9251.392	0.27	0.785	-15753.41	20807.95
Sex	59628.27	7195.808	8.29	0.000	45409.88	73846.67
w1Age	-870.4763	470.915	-1.85	0.067	-1800.965	60.01255
Race	-16842.94	8554.551	-1.97	0.051	-33749.85	63.9739
PovStat	-3784.743	8414.742	-0.45	0.654	-20411.65	12842.16
TIME_V1SCAN	-8.704019	6.091559	-1.43	0.155	-20.74051	3.332472
w1BMI	251.6252	575.746	0.44	0.663	-886.0029	1389.253
w1TotalD	293.415	417.6322	0.70	0.484	-533.4725	1120.302
w1Albumin	3791.806	13849.37	0.27	0.785	-23573.26	31156.88
w1EosinPct	-2569.524	1830.713	-1.40	0.163	-6187.722	1048.675
_cons	431943.2	77302.47	5.59	0.000	279198.3	584688.1

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

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

184 .
185 .
186 . //ANALYSIS A//
187 . 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    =         67
                                           Average RVI      =     0.0210
                                           Largest FMI      =     0.1804
                                           Complete DF      =         57
DF adjustment:    Small sample             DF:     min      =      35.18
                                                   avg      =      52.89
                                                   max      =      55.04
Model F test:        Equal FMI             F(   9,   54.9)  =       5.93
Within VCE type:           OLS             Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-46014.29	31233.76	-1.47	0.146	-108607.2	16578.65
Sex	124615.9	21158.68	5.89	0.000	82211.94	167019.9
w1Age	-1543.87	1548.989	-1.00	0.323	-4648.562	1560.822
Race	0	(omitted)				
PovStat	25582.69	25424.75	1.01	0.319	-25374.61	76539.99
TIME_V1SCAN	-16.89282	19.82835	-0.85	0.398	-56.63656	22.85092
w1BMI	-218.4271	1906.219	-0.11	0.909	-4038.538	3601.684
w1TotalD	667.2162	1744.458	0.38	0.704	-2873.571	4208.004
w1Albumin	19440.14	37921.39	0.51	0.610	-56554.82	95435.09
w1EosinPct	1161.651	5734.914	0.20	0.840	-10331.54	12654.85
_cons	993513.3	210635.3	4.72	0.000	571346.1	1415680

188 .
189 . 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    =          67
                                           Average RVI      =      0.0204
                                           Largest FMI      =      0.1802
                                           Complete DF      =          57
DF adjustment:   Small sample              DF:    min       =       35.20
                                                  avg       =       52.95
                                                  max       =       55.06
Model F test:        Equal FMI             F(   9,   54.9)  =        5.83
Within VCE type:          OLS              Prob > F         =      0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-17606.41	18175.47	-0.97	0.337	-54033.54	18820.72
Sex	65177.13	12283.55	5.31	0.000	40560.47	89793.78
w1Age	-1735.747	898.3571	-1.93	0.059	-3536.201	64.70763
Race	0	(omitted)				
PovStat	12530.94	14762.65	0.85	0.400	-17056.28	42118.16
TIME_V1SCAN	-8.488955	11.50955	-0.74	0.464	-31.55763	14.57972
w1BMI	78.35652	1107.157	0.07	0.944	-2140.4	2297.113
w1TotalD	2.192544	1013.41	0.00	0.998	-2054.718	2059.103
w1Albumin	11239.81	22023.96	0.51	0.612	-32896.1	55375.73
w1EosinPct	2097.167	3329.146	0.63	0.531	-4574.474	8768.808
_cons	582787.7	122171	4.77	0.000	337945	827630.4

190 . 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    =          67
                                           Average RVI      =      0.0086
                                           Largest FMI      =      0.0564
                                           Complete DF      =          57
DF adjustment:   Small sample              DF:    min       =       50.41
                                                  avg       =       54.39
                                                  max       =       55.00
Model F test:        Equal FMI             F(   9,   55.0)  =        4.34
Within VCE type:          OLS              Prob > F         =      0.0003
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-26889.16	14503.24	-1.85	0.069	-55954.26	2175.945
Sex	48859.23	9832.541	4.97	0.000	29152.85	68565.61
w1Age	-253.5619	719.5528	-0.35	0.726	-1695.841	1188.717
Race	0	(omitted)				
PovStat	5139.255	11795.13	0.44	0.665	-18500.27	28778.78
TIME_V1SCAN	-5.456873	9.183667	-0.59	0.555	-23.86232	12.94858
w1BMI	-419.7237	886.1261	-0.47	0.638	-2195.665	1356.217
w1TotalD	519.8021	760.6414	0.68	0.497	-1007.68	2047.285
w1Albumin	8668.108	17648.23	0.49	0.625	-26703.68	44039.89
w1EosinPct	-579.2983	2661.724	-0.22	0.829	-5913.546	4754.949
_cons	410403	97739.74	4.20	0.000	214511.6	606294.3

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

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

200 .
201 .
202 .
203 . //ANALYSIS A//
204 . 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	=	96
		Average RVI	=	0.0042
		Largest FMI	=	0.0217
		Complete DF	=	86
DF adjustment: **Small sample**		DF: min	=	81.63
		avg	=	83.57
		max	=	84.06
Model F test: **Equal FMI**		F(9, 84.0)	=	8.39
Within VCE type: **OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	32471.13	24860.29	1.31	0.195	-16967.39	81909.65
Sex	157070.6	19964.87	7.87	0.000	117368.7	196772.6
w1Age	-2843.376	1356.466	-2.10	0.039	-5540.831	-145.9199
Race	0	(omitted)				
PovStat	-22941.47	23272.35	-0.99	0.327	-69220.68	23337.74
TIME_V1SCAN	-17.8218	16.43184	-1.08	0.281	-50.49817	14.85457
w1BMI	834.4128	1580.507	0.53	0.599	-2308.592	3977.417
w1TotalD	233.602	994.8526	0.23	0.815	-1745.61	2212.814
w1Albumin	5282.911	41082.72	0.13	0.898	-76413.88	86979.71
w1EosinPct	-5635.01	4916.487	-1.15	0.255	-15415.69	4145.672
_cons	1041657	217248.5	4.79	0.000	609636.4	1473677

```
205 .
206 . 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	=	96
		Average RVI	=	0.0044
		Largest FMI	=	0.0322
		Complete DF	=	86
DF adjustment: **Small sample**		DF: min	=	79.97
		avg	=	83.51
		max	=	84.06
Model F test: **Equal FMI**		F(9, 84.0)	=	9.26
Within VCE type: **OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	10763.95	12634.42	0.85	0.397	-14361.4	35889.31
Sex	81091.05	10147.98	7.99	0.000	60910.9	101271.2
w1Age	-2083.392	689.503	-3.02	0.003	-3454.533	-712.2511
Race	0	(omitted)				
PovStat	-16964.6	11828.54	-1.43	0.155	-40486.7	6557.494
TIME_V1SCAN	-2.259523	8.35207	-0.27	0.787	-18.86845	14.3494
w1BMI	870.8156	803.5006	1.08	0.282	-727.0385	2468.67
w1TotalD	102.4313	508.283	0.20	0.841	-909.0899	1113.953
w1Albumin	14843.93	20881.34	0.71	0.479	-26680.51	56368.37
w1EosinPct	-1764.918	2488.774	-0.71	0.480	-6715.03	3185.194
_cons	561062.2	110431.7	5.08	0.000	341457.5	780666.8

207 . 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   =   96
                                       Average RVI   =   0.0059
                                       Largest FMI   =   0.0333
                                       Complete DF   =   86
DF adjustment: **Small sample**   DF: min   =   79.78
                                              avg   =   83.31
                                              max   =   84.04
Model F test: **Equal FMI**   F(9,   84.0) =   5.89
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16270.18	12722.1	1.28	0.204	-9030.111	41570.48
Sex	64558.91	10213.04	6.32	0.000	44249.27	84868.55
w1Age	-1031.465	693.8498	-1.49	0.141	-2411.252	348.322
Race	0	(omitted)				
PovStat	-10951.73	11903.95	-0.92	0.360	-34623.88	12720.41
TIME_V1SCAN	-12.23015	8.406126	-1.45	0.149	-28.94668	4.486386
w1BMI	293.8149	808.4839	0.36	0.717	-1313.947	1901.577
w1TotalD	194.6783	511.7412	0.38	0.705	-823.7613	1213.118
w1Albumin	5758.979	21015.08	0.27	0.785	-36031.6	47549.56
w1EosinPct	-3155.345	2518.73	-1.25	0.214	-8166.459	1855.77
_cons	396943	111132.4	3.57	0.001	175944.4	617941.7

208 .
209 . save, replace
    file **finaldata_imputed_final.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     =        163
                                               Average RVI       =     0.0093
                                               Largest FMI       =     0.0909
                                               Complete DF       =        151
    DF adjustment:    Small sample             DF:    min        =     108.59
                                                      avg        =     145.22
                                                      max        =     148.99
    Model F test:        Equal FMI             F(  11,  148.9)   =      13.64
    Within VCE type:         OLS               Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	33568.55	21057.76	1.59	0.113	-8043.332	75180.43
Race						
AfrAm	72951.51	59414.79	1.23	0.221	-44454.17	190357.2
Race#c.LnNFLw1						
AfrAm	-70663.89	29379.13	-2.41	0.017	-128717.5	-12610.3
Sex	144326.8	14353.53	10.06	0.000	115963.9	172689.7
w1Age	-2545.783	939.7172	-2.71	0.008	-4402.678	-688.8875
Race	0	(omitted)				
PovStat	-3375.578	16754.04	-0.20	0.841	-36481.99	29730.84
TIME_V1SCAN	-17.20944	12.14644	-1.42	0.159	-41.2113	6.792406
w1BMI	607.7382	1149.078	0.53	0.598	-1662.863	2878.339
w1TotalD	282.7104	840.3174	0.34	0.737	-1382.841	1948.262
w1Albumin	7778.125	27607.03	0.28	0.779	-46773.76	62330
w1EosinPct	-3605.605	3639.552	-0.99	0.323	-10798.77	3587.563
_cons	1005830	151750.8	6.63	0.000	705965.2	1305694

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     =        163
                                               Average RVI       =     0.0051
                                               Largest FMI       =     0.0520
                                               Complete DF       =        151
    DF adjustment:    Small sample             DF:    min        =     130.04
                                                      avg        =     147.24
                                                      max        =     149.02
    Model F test:        Equal FMI             F(  11,  149.0)   =      15.18
    Within VCE type:         OLS               Prob > F          =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	13911.75	11251.03	1.24	0.218	-8320.853	36144.35
Race						
AfrAm	12870.64	31756.43	0.41	0.686	-49880.67	75621.94
Race#c.LnNFLw1						
AfrAm	-29564.11	15708.01	-1.88	0.062	-60603.3	1475.082
Sex	75011.04	7673.42	9.78	0.000	59848.25	90173.83

w1Age	-2132.469	502.4252	-4.24	0.000	-3125.267	-1139.671
Race	0	(omitted)				
PovStat	-4614.757	8955.882	-0.52	0.607	-22311.71	13082.2
TIME_V1SCAN	-4.789839	6.492531	-0.74	0.462	-17.61926	8.039577
w1BMI	578.575	614.3367	0.94	0.348	-635.3632	1792.513
w1TotalD	46.7823	440.6738	0.11	0.916	-825.0354	918.6
w1Albumin	10880.96	14761.42	0.74	0.462	-18287.79	40049.71
w1EosinPct	-449.416	1939.562	-0.23	0.817	-4282.346	3383.514
_cons	578314.3	81115.26	7.13	0.000	418029	738599.5

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  =       163
                                       Average RVI    =    0.0088
                                       Largest FMI    =    0.0788
                                       Complete DF    =       151
DF adjustment:    Small sample         DF:     min    =    115.40
                                               avg    =    145.65
                                               max    =    148.99
Model F test:      Equal FMI           F(  11,  148.9) =      8.95
Within VCE type:         OLS           Prob > F       =    0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	14500.78	10423.13	1.39	0.166	-6096.234	35097.79
Race						
AfrAm	49931.84	29417.47	1.70	0.092	-8198.507	108062.2
Race#c.LnNFLw1						
AfrAm	-34458.64	14543.62	-2.37	0.019	-63197.15	-5720.129
Sex	58435.88	7106.768	8.22	0.000	44392.66	72479.11
w1Age	-787.826	465.1763	-1.69	0.092	-1707.024	131.3721
Race	0	(omitted)				
PovStat	-4422.183	8293.654	-0.53	0.595	-20810.71	11966.34
TIME_V1SCAN	-9.526965	6.011689	-1.58	0.115	-21.40631	2.352378
w1BMI	148.9257	568.803	0.26	0.794	-975.0434	1272.895
w1TotalD	254.1197	413.362	0.61	0.540	-564.6408	1072.88
w1Albumin	5562.244	13663.68	0.41	0.685	-21437.37	32561.86
w1EosinPct	-2463.539	1804.511	-1.37	0.174	-6030.181	1103.104
_cons	385770.1	75117	5.14	0.000	237336.1	534204

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

223 .
224 .

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

232 .
233 .
234 . //ANALYSIS A//
235 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH  if sample_final2==
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   163
                                             Average RVI   =   0.0026
                                             Largest FMI   =   0.0255
                                             Complete DF   =   153
DF adjustment: **Small sample**   DF: min   =   144.04
                                                     avg   =   150.28
                                                     max   =   151.03
Model F test: **Equal FMI**   F(9, 151.0) =   15.83
Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16427.25	18396.38	0.89	0.373	-19920.35	52774.84
Sex	143434.8	14185.92	10.11	0.000	115406.3	171463.3
w1Age	-2914.328	964.6819	-3.02	0.003	-4820.353	-1008.302
Race	-63842.62	15184.22	-4.20	0.000	-93843.7	-33841.54
PovStat	1265.655	17270.55	0.07	0.942	-32857.58	35388.89
TIME_V1SCAN	-18.64032	12.09463	-1.54	0.125	-42.53691	5.256274
w1BMI	876.0742	1111.55	0.79	0.432	-1320.129	3072.277
w1currdrugs	-999.3952	18003.89	-0.06	0.956	-36585.34	34586.55
w1SRH	11202.51	9252.897	1.21	0.228	-7079.324	29484.34
_cons	1120751	73718.08	15.20	0.000	975099.2	1266404

```
236 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH  if sample_final2==1
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   163
                                             Average RVI   =   0.0059
                                             Largest FMI   =   0.0420
                                             Complete DF   =   153
DF adjustment: **Small sample**   DF: min   =   136.76
                                                     avg   =   149.08
                                                     max   =   151.02
Model F test: **Equal FMI**   F(9, 151.0) =   18.63
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	7032.999	9713.771	0.72	0.470	-12160.66	26226.66
Sex	75086.03	7468.211	10.05	0.000	60330.36	89841.7
w1Age	-2389.731	509.4927	-4.69	0.000	-3396.459	-1383.002
Race	-43011.18	7998.822	-5.38	0.000	-58815.49	-27206.87
PovStat	-3295.701	9104.034	-0.36	0.718	-21283.94	14692.54
TIME_V1SCAN	-5.674939	6.38339	-0.89	0.375	-18.28789	6.93801
w1BMI	484.489	585.4899	0.83	0.409	-672.3342	1641.312
w1currdrugs	-10567.94	9555.539	-1.11	0.271	-29463.65	8327.775
w1SRH	6909.204	4875.77	1.42	0.159	-2724.48	16542.89
_cons	684881.7	38825.56	17.64	0.000	608169.5	761593.8

_____|_____

237 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1

```
       Multiple-imputation estimates              Imputations       =            5
       Linear regression                          Number of obs     =          163
                                                  Average RVI       =       0.0036
                                                  Largest FMI       =       0.0194
                                                  Complete DF       =          153
       DF adjustment:    Small sample             DF:     min       =       146.27
                                                          avg       =       150.31
                                                          max       =       150.95
       Model F test:          Equal FMI           F(   9,  151.0)   =        10.01
       Within VCE type:             OLS           Prob > F          =       0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	5251.48	9139.404	0.57	0.566	-12806.52	23309.48
Sex	58763.99	7042.995	8.34	0.000	44848.36	72679.61
w1Age	-865.0422	478.9143	-1.81	0.073	-1811.291	81.20654
Race	-19370.74	7538.507	-2.57	0.011	-34265.49	-4475.988
PovStat	-1337.179	8570.333	-0.16	0.876	-18270.48	15596.12
TIME_V1SCAN	-10.79621	6.012252	-1.80	0.075	-22.67561	1.08318
w1BMI	360.57	551.7074	0.65	0.514	-729.4976	1450.638
w1currdrugs	10096.25	8907.465	1.13	0.259	-7507.707	27700.2
w1SRH	3116.298	4597.163	0.68	0.499	-5966.941	12199.54
_cons	435959.4	36597.5	11.91	0.000	363649.5	508269.3

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

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

245 .
246 .
247 . //ANALYSIS A//
248 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

```
       Multiple-imputation estimates              Imputations       =            5
       Linear regression                          Number of obs     =           67
                                                  Average RVI       =       0.0040
                                                  Largest FMI       =       0.0372
                                                  Complete DF       =           58
       DF adjustment:    Small sample             DF:     min       =        53.30
                                                          avg       =        55.76
                                                          max       =        56.10
       Model F test:          Equal FMI           F(   8,   56.1)   =         7.09
       Within VCE type:             OLS           Prob > F          =       0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-45560.94	30677.32	-1.49	0.143	-107013.7	15891.84
Sex	119518.8	21314.92	5.61	0.000	76820.55	162217
w1Age	-1514.645	1518.286	-1.00	0.323	-4556.066	1526.776
Race	0	(omitted)				
PovStat	25242.57	24956.82	1.01	0.316	-24750.6	75235.75
TIME_V1SCAN	-19.85106	18.74753	-1.06	0.294	-57.4059	17.70379
w1BMI	-839.7384	1822.274	-0.46	0.647	-4490.055	2810.578
w1currdrugs	2384.445	22983.85	0.10	0.918	-43709.2	48478.09
w1SRH	15120.8	13107.62	1.15	0.254	-11136.24	41377.84
_cons	1086860	94041.82	11.56	0.000	898478	1275242

249 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                       Average RVI   =   0.0037
                                       Largest FMI   =   0.0116
                                       Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   55.45
                                               avg   =   55.89
                                               max   =   56.07
Model F test: **Equal FMI**   F(8,   56.1) =   7.33
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-14975.6	17637.87	-0.85	0.399	-50310.96	20359.77
Sex	65680.05	12228.57	5.37	0.000	41183.94	90176.16
w1Age	-1922.299	872.3679	-2.20	0.032	-3669.922	-174.6755
Race	0	(omitted)				
PovStat	10760.14	14323.96	0.75	0.456	-17933.63	39453.92
TIME_V1SCAN	-8.562181	10.78768	-0.79	0.431	-30.17478	13.05042
w1BMI	-371.2533	1046.184	-0.35	0.724	-2466.973	1724.466
w1currdrugs	-15171.63	13026.38	-1.16	0.249	-41272.31	10929.05
w1SRH	8543.223	7530.697	1.13	0.261	-6543.009	23629.45
_cons	640912.3	54005.19	11.87	0.000	532727.2	749097.5

250 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                       Average RVI   =   0.0109
                                       Largest FMI   =   0.0736
                                       Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   49.26
                                               avg   =   55.06
                                               max   =   56.06
Model F test: **Equal FMI**   F(8,   56.0) =   5.31
Within VCE type: **OLS**   Prob > F   =   0.0001

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	-28854.12	14192.77	-2.03	0.047	-57292.96	-415.2853
Sex	44462.23	9829.545	4.52	0.000	24769.59	64154.86
w1Age	-83.85399	701.9102	-0.12	0.905	-1490.246	1322.538
Race	0	(omitted)				
PovStat	6439.339	11505.88	0.56	0.578	-16611.06	29489.73
TIME_V1SCAN	-8.028909	8.6347	-0.93	0.356	-25.32645	9.268635
w1BMI	-579.3323	839.3838	-0.69	0.493	-2260.827	1102.162
w1currdrugs	14979.69	10766.43	1.39	0.170	-6653.361	36612.73
w1SRH	5375.395	6032.711	0.89	0.377	-6709.299	17460.09
_cons	448801.3	43373.05	10.35	0.000	361908.6	535694.1

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

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

260 .
261 .
262 . //ANALYSIS A//
263 . mi estimate: reg TOTALBRAIN LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH  if sample_final2==
```

```
Multiple-imputation estimates          Imputations       =          5
Linear regression                       Number of obs     =         96
                                        Average RVI       =     0.0116
                                        Largest FMI       =     0.0973
                                        Complete DF       =         87
DF adjustment:    Small sample          DF:      min      =      66.60
                                                 avg      =      82.79
                                                 max      =      85.05
Model F test:        Equal FMI          F(   8,   85.0)   =       9.42
Within VCE type:          OLS           Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	42119.06	24345.21	1.73	0.087	-6285.626	90523.74
Sex	158318.8	19743.42	8.02	0.000	119059	197578.5
w1Age	-3058.583	1378.265	-2.22	0.029	-5798.959	-318.2068
Race	0	(omitted)				
PovStat	-15461.47	24107.73	-0.64	0.523	-63394.61	32471.68
TIME_V1SCAN	-24.3104	16.41246	-1.48	0.142	-56.94256	8.321752
w1BMI	1133.056	1516.214	0.75	0.457	-1881.668	4147.781
w1currdrugs	13479.93	29562	0.46	0.650	-45532.65	72492.52
w1SRH	11575.35	13228.17	0.88	0.384	-14725.57	37876.28
_cons	1009298	103864.2	9.72	0.000	802764.2	1215832

264 . mi estimate: reg GM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

Multiple-imputation estimates				Imputations	=	5
Linear regression				Number of obs	=	96
				Average RVI	=	0.0102
				Largest FMI	=	0.0887
				Complete DF	=	87
DF adjustment:	**Small sample**			DF: min	=	68.67
				avg	=	83.04
				max	=	85.06
Model F test:	**Equal FMI**			F(8, 85.0)	=	10.49
Within VCE type:	**OLS**			Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	14035.5	12354.63	1.14	0.259	-10528.7	38599.69
Sex	82940.65	10013.79	8.28	0.000	63028.73	102852.6
w1Age	-2211.377	699.7206	-3.16	0.002	-3602.631	-820.1229
Race	0	(omitted)				
PovStat	-13183.91	12238.16	-1.08	0.284	-37517.1	11149.28
TIME_V1SCAN	-6.042768	8.329827	-0.73	0.470	-22.6046	10.51907
w1BMI	807.4413	769.471	1.05	0.297	-722.5141	2337.397
w1currdrugs	2562.223	14939.13	0.17	0.864	-27243.09	32367.54
w1SRH	6140.028	6713.325	0.91	0.363	-7207.732	19487.79
_cons	610415.8	52675.07	11.59	0.000	505674.2	715157.4

265 . mi estimate: reg WM LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

Multiple-imputation estimates				Imputations	=	5
Linear regression				Number of obs	=	96
				Average RVI	=	0.0135
				Largest FMI	=	0.0970
				Complete DF	=	87
DF adjustment:	**Small sample**			DF: min	=	66.66
				avg	=	82.71
				max	=	85.04
Model F test:	**Equal FMI**			F(8, 84.9)	=	6.59
Within VCE type:	**OLS**			Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	20602.1	12464.67	1.65	0.102	-4181.822	45386.02
Sex	66740.43	10103.08	6.61	0.000	46650	86830.85
w1Age	-1076.583	704.5779	-1.53	0.130	-2477.464	324.2968
Race	0	(omitted)				
PovStat	-6684.44	12323.99	-0.54	0.589	-31187.79	17818.91
TIME_V1SCAN	-15.93825	8.409329	-1.90	0.061	-32.65911	.7826194
w1BMI	459.8797	775.2815	0.59	0.555	-1081.623	2001.382
w1currdrugs	14415.77	15115.86	0.95	0.344	-15758.46	44590.01
w1SRH	4262.816	6766.531	0.63	0.530	-9190.828	17716.46
_cons	393224.7	53174.5	7.39	0.000	287482.6	498966.8

266 .
267 .
268 . save, replace
    file **finaldata_imputed_final.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 if sample_

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   163
                                               Average RVI   =   0.0027
                                               Largest FMI   =   0.0293
                                               Complete DF   =   152
    DF adjustment: **Small sample**   DF: min   =   141.61
                                                       avg   =   149.23
                                                       max   =   150.03
    Model F test: **Equal FMI**   F(**10, 150.0**) =   15.32
    Within VCE type: **OLS**   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	**40635.15**	**20583.75**	**1.97**	**0.050**	**-36.31738**	**81306.61**
Race						
AfrAm	**76012.32**	**58621.43**	**1.30**	**0.197**	**-39817.87**	**191842.5**
Race#c.LnNFLw1						
AfrAm	**-72188.48**	**29262.69**	**-2.47**	**0.015**	**-130008.8**	**-14368.2**
Sex	**141578.4**	**13976.5**	**10.13**	**0.000**	**113962.1**	**169194.6**
w1Age	**-2719.47**	**952.2195**	**-2.86**	**0.005**	**-4600.97**	**-837.9707**
Race	**0**	(omitted)				
PovStat	**622.0674**	**16991.36**	**0.04**	**0.971**	**-32951.31**	**34195.44**
TIME_V1SCAN	**-20.69429**	**11.92703**	**-1.74**	**0.085**	**-44.26098**	**2.872392**
w1BMI	**646.9506**	**1097.486**	**0.59**	**0.556**	**-1521.581**	**2815.483**
w1currdrugs	**2319.162**	**17806.26**	**0.13**	**0.897**	**-32881.28**	**37519.61**
w1SRH	**11511.48**	**9103.892**	**1.26**	**0.208**	**-6476.92**	**29499.88**
_cons	**1008920**	**71773.44**	**14.06**	**0.000**	**867101.5**	**1150739**

275 . mi estimate: reg GM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

    Multiple-imputation estimates   Imputations   =   5
    Linear regression   Number of obs   =   163
                                               Average RVI   =   0.0048
                                               Largest FMI   =   0.0381
                                               Complete DF   =   152
    DF adjustment: **Small sample**   DF: min   =   137.77
                                                       avg   =   148.51
                                                       max   =   150.03
    Model F test: **Equal FMI**   F(**10, 150.0**) =   17.36
    Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	16502.04	10958.22	1.51	0.134	-5151.281	38155.36
Race						
AfrAm	11691.45	31153.77	0.38	0.708	-49865.94	73248.83
Race#c.LnNFLw1						
AfrAm	-28234.59	15554.53	-1.82	0.071	-58969.26	2500.086
Sex	74359.45	7423.138	10.02	0.000	59692.06	89026.84
w1Age	-2313.607	507.2492	-4.56	0.000	-3315.946	-1311.268
Race	0	(omitted)				
PovStat	-3548.477	9037.435	-0.39	0.695	-21406.1	14309.14
TIME_V1SCAN	-6.478543	6.348287	-1.02	0.309	-19.02267	6.065587
w1BMI	394.7672	583.0842	0.68	0.499	-757.3595	1546.894
w1currdrugs	-9281.169	9498.712	-0.98	0.330	-28063.29	9500.946
w1SRH	7030.279	4838.954	1.45	0.148	-2531.141	16591.7
_cons	623110.3	38137.52	16.34	0.000	547753	698467.5

276 . mi estimate: reg WM c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        163
                                           Average RVI     =     0.0055
                                           Largest FMI     =     0.0341
                                           Complete DF     =        152
DF adjustment:    Small sample             DF:      min    =     139.56
                                                    avg    =     148.64
                                                    max    =     149.99
Model F test:         Equal FMI            F( 10,   150.0) =       9.94
Within VCE type:            OLS            Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw1	17556.23	10228.67	1.72	0.088	-2655.525	37767.99
Race						
AfrAm	51718.81	29094.65	1.78	0.077	-5770.51	109208.1
Race#c.LnNFLw1						
AfrAm	-36695.19	14533.92	-2.52	0.013	-65413.83	-7976.558
Sex	57820.83	6932.756	8.34	0.000	44122.25	71519.42
w1Age	-765.9029	472.5475	-1.62	0.107	-1699.631	167.825
Race	0	(omitted)				
PovStat	-1663.277	8423.169	-0.20	0.844	-18306.67	14980.12
TIME_V1SCAN	-11.84003	5.925683	-2.00	0.048	-23.54911	-.1309547
w1BMI	244.2097	544.3126	0.45	0.654	-831.3098	1319.729
w1currdrugs	11794.68	8848.651	1.33	0.185	-5700.058	29289.41
w1SRH	3273.153	4520.439	0.72	0.470	-5659.048	12205.35
_cons	392185.2	35652.68	11.00	0.000	321735.6	462634.9

```
277 .
278 . save, replace
    file finaldata_imputed_final.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 sample_final2==1 & Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	67
					F(5, 61)	=	10.68
Model	3.3719e+11	5	6.7438e+10		Prob > F	=	0.0000
Residual	3.8526e+11	61	6.3158e+09		R-squared	=	0.4667
					Adj R-squared	=	0.4230
Total	7.2245e+11	66	1.0946e+10		Root MSE	=	79472

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-18079.79	23287.02	-0.78	0.441	-.0849274
Sex	129565.6	19971.78	6.49	0.000	.6154018
w1Age	-2311.501	1246.42	-1.85	0.069	-.2181289
Race	0	(omitted)			.
PovStat	24735.19	24654.17	1.00	0.320	.115204
TIME_V1SCAN	-18.09144	18.65743	-0.97	0.336	-.1032732
_cons	1068207	77224.15	13.83	0.000	.

```
294 . reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    if sample_final2==1 & Race==2,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	67
					F(5, 61)	=	10.81
Model	1.1359e+11	5	2.2718e+10		Prob > F	=	0.0000
Residual	1.2815e+11	61	2.1008e+09		R-squared	=	0.4699
					Adj R-squared	=	0.4264
Total	2.4174e+11	66	3.6627e+09		Root MSE	=	45835

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-8661.968	13430.53	-0.64	0.521	-.0703397
Sex	68480.97	11518.5	5.95	0.000	.5623006
w1Age	-2008.107	718.8591	-2.79	0.007	-.3275938
Race	0	(omitted)			.
PovStat	12773.24	14219.02	0.90	0.373	.1028449
TIME_V1SCAN	-9.137972	10.76046	-0.85	0.399	-.0901766
_cons	632624.6	44538.18	14.20	0.000	.

295 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if sample_final2==1 & Race==2,beta
    note: **Race** omitted because of collinearity.

Source	SS	df	MS			
				Number of obs	=	67
				F(5, 61)	=	7.15
Model	4.9668e+10	5	9.9336e+09	Prob > F	=	0.0000
Residual	8.4767e+10	61	1.3896e+09	R-squared	=	0.3695
				Adj R-squared	=	0.3178
Total	1.3443e+11	66	2.0369e+09	Root MSE	=	37278

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	-7093.696	10923.15	-0.65	0.519	-.077246
Sex	50836.49	9368.08	5.43	0.000	.5597494
w1Age	-823.6415	584.6533	-1.41	0.164	-.1801799
Race	0	(omitted)			.
PovStat	4021.317	11564.43	0.35	0.729	.043418
TIME_V1SCAN	-5.875419	8.751564	-0.67	0.505	-.0777504
_cons	433060.3	36223.22	11.96	0.000	.

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

301 .
302 .
303 . //ANALYSIS A//
304 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	67
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	60
DF adjustment: **Small sample**		DF: min	=	58.10
		avg	=	58.10
		max	=	58.10
Model F test: **Equal FMI**		F(6, 58.1)	=	8.79
Within VCE type: **OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-15478.4	24562.64	-0.63	0.531	-64644.14	33687.35
Sex	130356.4	20237.93	6.44	0.000	89847.18	170865.6
w1Age	-2489.088	1350.512	-1.84	0.070	-5192.337	214.1611
Race	0	(omitted)				
PovStat	23603.65	25034.17	0.94	0.350	-26505.95	73713.24
TIME_V1SCAN	-17.92245	18.79831	-0.95	0.344	-55.55004	19.70514
w1BMI	581.1937	1629.054	0.36	0.723	-2679.597	3841.985
_cons	1054030	87345.69	12.07	0.000	879194.4	1228865

305 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

Multiple-imputation estimates	Imputations =	5
Linear regression	Number of obs =	67
	Average RVI =	0.0000
	Largest FMI =	0.0000
	Complete DF =	60
DF adjustment: **Small sample**	DF: min =	58.10
	avg =	58.10
	max =	58.10
Model F test: **Equal FMI**	F(6, 58.1) =	8.90
Within VCE type: **OLS**	Prob > F =	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-7262.297	14168.18	-0.51	0.610	-35622	21097.4
Sex	68906.43	11673.61	5.90	0.000	45539.98	92272.88
w1Age	-2103.657	779	-2.70	0.009	-3662.941	-544.3738
Race	0	(omitted)				
PovStat	12164.42	14440.17	0.84	0.403	-16739.71	41068.55
TIME_V1SCAN	-9.047045	10.84321	-0.83	0.408	-30.75133	12.65724
w1BMI	312.7096	939.6679	0.33	0.740	-1568.174	2193.594
_cons	624996.5	50382.59	12.41	0.000	524148.3	725844.7

306 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==2

Multiple-imputation estimates	Imputations =	5
Linear regression	Number of obs =	67
	Average RVI =	0.0000
	Largest FMI =	0.0000
	Complete DF =	60
DF adjustment: **Small sample**	DF: min =	58.10
	avg =	58.10
	max =	58.10
Model F test: **Equal FMI**	F(6, 58.1) =	5.87
Within VCE type: **OLS**	Prob > F =	0.0001

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-6462.473	11530.44	-0.56	0.577	-29542.36	16617.41
Sex	51028.36	9500.294	5.37	0.000	32012.12	70044.6
w1Age	-866.7325	633.9711	-1.37	0.177	-2135.719	402.2543
Race	0	(omitted)				
PovStat	3746.751	11751.8	0.32	0.751	-19776.21	27269.71
TIME_V1SCAN	-5.834413	8.824494	-0.66	0.511	-23.49794	11.82911
w1BMI	141.0256	764.727	0.18	0.854	-1389.688	1671.739
_cons	429620.1	41002.71	10.48	0.000	347547.2	511693.1

307 .

```
308 . save, replace
    file finaldata_imputed_final.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 sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	96
					F(5, 90)	=	14.58
Model	6.0828e+11	5	1.2166e+11		Prob > F	=	0.0000
Residual	7.5114e+11	90	8.3460e+09		R-squared	=	0.4475
					Adj R-squared	=	0.4168
Total	1.3594e+12	95	1.4310e+10		Root MSE	=	91356

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	16822.43	20436.91	0.82	0.413	.0734807
Sex	154724.2	18960.06	8.16	0.000	.6431602
w1Age	-2292.996	1232.944	-1.86	0.066	-.1665872
Race	0	(omitted)			.
PovStat	-25969.79	22961.38	-1.13	0.261	-.0944992
TIME_V1SCAN	-18.2634	15.50569	-1.18	0.242	-.0977991
_cons	1089846	74147.76	14.70	0.000	.

```
320 . reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.
```

Source	SS	df	MS		Number of obs	=	96
					F(5, 90)	=	16.51
Model	1.7628e+11	5	3.5256e+10		Prob > F	=	0.0000
Residual	1.9216e+11	90	2.1351e+09		R-squared	=	0.4784
					Adj R-squared	=	0.4495
Total	3.6844e+11	95	3.8783e+09		Root MSE	=	46208

GM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	2764.12	10336.88	0.27	0.790	.0231917
Sex	81427.83	9589.896	8.49	0.000	.650168
w1Age	-1908.482	623.6165	-3.06	0.003	-.266329
Race	0	(omitted)			.
PovStat	-17371.25	11613.74	-1.50	0.138	-.1214178
TIME_V1SCAN	-3.944724	7.842692	-0.50	0.616	-.0405753
_cons	660053.4	37503.53	17.60	0.000	.

321 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN   if sample_final2==1 & Race==1,beta
   note: **Race** omitted because of collinearity.

Source	SS	df	MS		
Model	1.0876e+11	5	2.1752e+10		
Residual	1.9723e+11	90	2.1914e+09		
Total	3.0598e+11	95	3.2209e+09		

	Number of obs	=	96
	F(5, 90)	=	9.93
	Prob > F	=	0.0000
	R-squared	=	0.3554
	Adj R-squared	=	0.3196
	Root MSE	=	46812

WM	Coefficient	Std. err.	t	P>|t|	Beta
LnNFLw3	7921.951	10472.17	0.76	0.451	.0729363
Sex	63962.94	9715.414	6.58	0.000	.5604232
w1Age	-724.0062	631.7787	-1.15	0.255	-.1108683
Race	0	(omitted)			.
PovStat	-12425.64	11765.75	-1.06	0.294	-.0953027
TIME_V1SCAN	-12.59659	7.945341	-1.59	0.116	-.1421783
_cons	431179.8	37994.4	11.35	0.000	.

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

328 .
329 .
330 .
331 . //ANALYSIS A//
332 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	96
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment:	**Small sample**	DF: min	=	87.07
		avg	=	87.07
		max	=	87.07
Model F test:	**Equal FMI**	F(6, 87.1)	=	12.12
Within VCE type:	**OLS**	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	17713.8	20568.08	0.86	0.391	-23167.06	58594.65
Sex	156194.4	19194.06	8.14	0.000	118044.6	194344.3
w1Age	-2224.392	1242.983	-1.79	0.077	-4694.93	246.1458
Race	0	(omitted)				
PovStat	-26019.39	23045.7	-1.13	0.262	-71824.73	19785.96
TIME_V1SCAN	-17.01486	15.70754	-1.08	0.282	-48.23496	14.20524
w1BMI	878.369	1498.089	0.59	0.559	-2099.214	3855.952
_cons	1054266	96025.21	10.98	0.000	863407.1	1245124

333 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   96
                                              Average RVI   =   0.0000
                                              Largest FMI   =   0.0000
                                              Complete DF   =   89
DF adjustment: **Small sample**   DF: min   =   87.07
                                                       avg   =   87.07
                                                       max   =   87.07
Model F test: **Equal FMI**   F(6,   87.1)   =   13.89
Within VCE type: **OLS**   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3484.589	10371.96	0.34	0.738	-17130.58	24099.76
Sex	82616.16	9679.072	8.54	0.000	63378.16	101854.2
w1Age	-1853.031	626.8048	-2.96	0.004	-3098.86	-607.2018
Race	0	(omitted)				
PovStat	-17411.33	11621.36	-1.50	0.138	-40509.8	5687.135
TIME_V1SCAN	-2.935556	7.920909	-0.37	0.712	-18.67905	12.80794
w1BMI	709.9682	755.448	0.94	0.350	-791.5507	2211.487
_cons	631294.2	48423.06	13.04	0.000	535049.2	727539.3

334 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final2==1 & Race==1

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   96
                                              Average RVI   =   0.0000
                                              Largest FMI   =   0.0000
                                              Complete DF   =   89
DF adjustment: **Small sample**   DF: min   =   87.07
                                                       avg   =   87.07
                                                       max   =   87.07
Model F test: **Equal FMI**   F(6,   87.1)   =   8.21
Within VCE type: **OLS**   Prob > F   =   0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	8197.21	10552.34	0.78	0.439	-12776.49	29170.91
Sex	64416.95	9847.404	6.54	0.000	44844.37	83989.53
w1Age	-702.8207	637.7058	-1.10	0.273	-1970.317	564.6752
Race	0	(omitted)				
PovStat	-12440.96	11823.47	-1.05	0.296	-35941.14	11059.22
TIME_V1SCAN	-12.21103	8.058665	-1.52	0.133	-28.22833	3.80627
w1BMI	271.2477	768.5863	0.35	0.725	-1256.385	1798.88
_cons	420192.2	49265.2	8.53	0.000	322273.3	518111.1

335 .

336 . save, replace
file **finaldata_imputed_final.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   if sample_final2==1

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =        163
                                           Average RVI      =     0.0000
                                           Largest FMI      =     0.0000
                                           Complete DF      =        154
DF adjustment:    Small sample             DF:     min      =     152.04
                                                   avg      =     152.04
                                                   max      =     152.04
Model F test:     Equal FMI                F(   8,  152.0)  =      18.11
Within VCE type:        OLS                Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	21644.64	18539.95	1.17	0.245	-14984.56	58273.83
Race						
AfrAm	24599.14	61171.13	0.40	0.688	-96256.05	145454.3
Race#c.LnNFLw3						
AfrAm	-42488.55	27761.02	-1.53	0.128	-97335.72	12358.61
Sex	144821	13993.6	10.35	0.000	117173.9	172468
w1Age	-2456.083	882.844	-2.78	0.006	-4200.309	-711.8571
Race	0	(omitted)				
PovStat	-3323.795	16732.33	-0.20	0.843	-36381.69	29734.1
TIME_V1SCAN	-16.54277	11.877	-1.39	0.166	-40.00804	6.922497
w1BMI	751.3839	1074.279	0.70	0.485	-1371.059	2873.827
_cons	1047255	70178.79	14.92	0.000	908603.6	1185907

345 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI   if sample_final2==1

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =        163
                                           Average RVI      =     0.0000
                                           Largest FMI      =     0.0000
                                           Complete DF      =        154
DF adjustment:    Small sample             DF:     min      =     152.04
                                                   avg      =     152.04
                                                   max      =     152.04
Model F test:     Equal FMI                F(   8,  152.0)  =      20.70
Within VCE type:        OLS                Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	6411.501	9842.525	0.65	0.516	-13034.28	25857.28
Race						
AfrAm	-9385.139	32474.65	-0.29	0.773	-73544.98	54774.7
Race#c.LnNFLw3						
AfrAm	-17148.24	14737.82	-1.16	0.246	-46265.61	11969.13
Sex	76625.27	7428.952	10.31	0.000	61947.96	91302.58
w1Age	-2070.733	468.6859	-4.42	0.000	-2996.711	-1144.755
Race	0	(omitted)				
PovStat	-4363.322	8882.893	-0.49	0.624	-21913.16	13186.52
TIME_V1SCAN	-4.852199	6.305285	-0.77	0.443	-17.30949	7.605089
w1BMI	512.4651	570.3155	0.90	0.370	-614.3015	1639.232
_cons	636788.3	37256.66	17.09	0.000	563180.7	710395.9

346 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI   if sample_final2==1

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =        163
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =        154
DF adjustment:   Small sample              DF:      min    =     152.04
                                                    avg    =     152.04
                                                    max    =     152.04
Model F test:       Equal FMI              F(   8,  152.0) =      11.33
Within VCE type:         OLS               Prob > F        =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	9433.738	9224.969	1.02	0.308	-8791.941	27659.42
Race						
AfrAm	19912.27	30437.07	0.65	0.514	-40221.95	80046.49
Race#c.LnNFLw3						
AfrAm	-17969.53	13813.12	-1.30	0.195	-45259.97	9320.916
Sex	58566.63	6962.833	8.41	0.000	44810.23	72323.02
w1Age	-788.5021	439.2789	-1.79	0.075	-1656.381	79.37673
Race	0	(omitted)				
PovStat	-4243.587	8325.548	-0.51	0.611	-20692.29	12205.11
TIME_V1SCAN	-9.678976	5.909668	-1.64	0.104	-21.35465	1.996696
w1BMI	227.0774	534.5318	0.42	0.672	-828.9918	1283.147
_cons	416253.9	34919.04	11.92	0.000	347264.7	485243.1

```
347 .
348 . save, replace
    file finaldata_imputed_final.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_final,clear

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

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                             Average RVI   =   0.0142
                                             Largest FMI   =   0.1024
                                             Complete DF   =   58
DF adjustment: Small sample   DF: min   =   45.62
                                                     avg   =   54.10
                                                     max   =   56.07
Model F test: Equal FMI   F(8,   56.0)   =   7.13
Within VCE type: OLS   Prob > F   =   0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-29484.47	25709.94	-1.15	0.257	-81035.9	22066.95
Sex	127926.5	20292.48	6.30	0.000	87273.25	168579.8
w1Age	-1611.577	1425.251	-1.13	0.263	-4468.426	1245.272
Race	0	(omitted)				
PovStat	25002.48	24728.02	1.01	0.316	-24532.34	74537.3
TIME_V1SCAN	-21.32347	18.64527	-1.14	0.258	-58.67351	16.02658
w1BMI	192.0695	1632.014	0.12	0.907	-3077.191	3461.33
w1dxDiabetes	-34144.69	19537.78	-1.75	0.087	-73481.12	5191.745
w1Glucose	816.8327	553.0637	1.48	0.146	-292.2714	1925.937
_cons	996624.1	94705.7	10.52	0.000	806878.2	1186370

```
364 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose  if sample_final2==1 &
```

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                             Average RVI   =   0.0077
                                             Largest FMI   =   0.0330
                                             Complete DF   =   58
DF adjustment: Small sample   DF: min   =   53.70
                                                     avg   =   55.37
                                                     max   =   56.06
Model F test: Equal FMI   F(8,   56.1)   =   7.83
Within VCE type: OLS   Prob > F   =   0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-17543.62	14473.07	-1.21	0.231	-46552.09	11464.84
Sex	67452.3	11507.02	5.86	0.000	44397.11	90507.49
w1Age	-1458.678	802.8901	-1.82	0.075	-3067.546	150.1894
Race	0	(omitted)				
PovStat	13357.79	14000.47	0.95	0.344	-14688.34	41403.92
TIME_V1SCAN	-11.635	10.55169	-1.10	0.275	-32.77207	9.50207
w1BMI	51.30769	923.9754	0.06	0.956	-1799.641	1902.257
w1dxDiabetes	-25573.8	10684.01	-2.39	0.020	-46996.67	-4150.932
w1Glucose	555.5474	309.6049	1.79	0.078	-64.84262	1175.937
_cons	585994.9	53540.66	10.94	0.000	478730.1	693259.7

365 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                           Average RVI   =   0.0213
                                           Largest FMI   =   0.1694
                                           Complete DF   =   58
DF adjustment: **Small sample**   DF: min   =   36.99
                                                    avg   =   52.74
                                                    max   =   56.10
Model F test: **Equal FMI**   F(8,   55.9) =   4.42
Within VCE type: **OLS**   Prob > F   =   0.0003

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-10336.52	12302.38	-0.84	0.405	-35004.65	14331.61
Sex	50104.48	9692.192	5.17	0.000	30688.95	69520.02
w1Age	-624.6759	683.3596	-0.91	0.365	-1994.665	745.313
Race	0	(omitted)				
PovStat	4008.98	11826.83	0.34	0.736	-19682.1	27700.06
TIME_V1SCAN	-6.706763	8.921966	-0.75	0.455	-24.57938	11.16586
w1BMI	15.366	780.673	0.02	0.984	-1548.477	1579.209
w1dxDiabetes	-9078.956	9670.826	-0.94	0.354	-28674.13	10516.22
w1Glucose	259.2637	268.3274	0.97	0.339	-279.6068	798.1342
_cons	411369.4	45388.02	9.06	0.000	320423.9	502315

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

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

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

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         96
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =         87
DF adjustment:    Small sample             DF:     min     =      85.07
                                                   avg     =      85.07
                                                   max     =      85.07
Model F test:       Equal FMI              F(   8,   85.1) =       9.44
Within VCE type:          OLS              Prob > F        =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	23184.47	21790.86	1.06	0.290	-20141.12	66510.05
Sex	153088.9	19732.7	7.76	0.000	113855.4	192322.3
w1Age	-2455.928	1250.54	-1.96	0.053	-4942.31	30.45302
Race	0	(omitted)				
PovStat	-28338.54	23168.3	-1.22	0.225	-74402.8	17725.73
TIME_V1SCAN	-14.42095	16.01455	-0.90	0.370	-46.26181	17.41991
w1BMI	734.6118	1556.726	0.47	0.638	-2360.542	3829.765
w1dxDiabetes	29797.59	20175.63	1.48	0.143	-10316.53	69911.7
w1Glucose	-588.3429	431.4168	-1.36	0.176	-1446.105	269.4196
_cons	1107511	102150.5	10.84	0.000	904410.8	1310611

378 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         96
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
                                           Complete DF     =         87
DF adjustment:    Small sample             DF:     min     =      85.07
                                                   avg     =      85.07
                                                   max     =      85.07
Model F test:       Equal FMI              F(   8,   85.1) =      10.65
Within VCE type:          OLS              Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	4785.567	11019.43	0.43	0.665	-17123.77	26694.9
Sex	80521.32	9978.64	8.07	0.000	60681.33	100361.3
w1Age	-1965.768	632.3865	-3.11	0.003	-3223.108	-708.4286
Race	0	(omitted)				
PovStat	-18844.52	11715.99	-1.61	0.111	-42138.79	4449.74
TIME_V1SCAN	-1.314835	8.098408	-0.16	0.871	-17.41646	14.78679
w1BMI	574.7947	787.2216	0.73	0.467	-990.395	2139.985
w1dxDiabetes	14159.11	10202.63	1.39	0.169	-6126.222	34444.43
w1Glucose	-221.8161	218.1634	-1.02	0.312	-655.5785	211.9463
_cons	656280.4	51656.56	12.70	0.000	553574.5	758986.3

379 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final2==1 &

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         96
                                           Average RVI       =     0.0000
                                           Largest FMI       =     0.0000
                                           Complete DF       =         87
DF adjustment:    Small sample             DF:     min       =      85.07
                                                   avg       =      85.07
                                                   max       =      85.07
Model F test:       Equal FMI              F(  8,   85.1)    =       6.28
Within VCE type:          OLS              Prob > F          =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	10830.4	11249.63	0.96	0.338	-11536.62	33197.42
Sex	63628.46	10187.09	6.25	0.000	43374.02	83882.9
w1Age	-784.2319	645.5969	-1.21	0.228	-2067.837	499.373
Race	0	(omitted)				
PovStat	-13098.11	11960.73	-1.10	0.277	-36878.99	10682.76
TIME_V1SCAN	-11.48525	8.267581	-1.39	0.168	-27.92323	4.952728
w1BMI	254.6406	803.6665	0.32	0.752	-1343.246	1852.527
w1dxDiabetes	10659.29	10415.76	1.02	0.309	-10049.79	31368.38
w1Glucose	-240.5368	222.7208	-1.08	0.283	-683.3604	202.2868
_cons	439403.3	52735.65	8.33	0.000	334551.9	544254.7

380 .
381 .
382 . save, replace
file **finaldata_imputed_final.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 if sa

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =        163
                                           Average RVI       =     0.0074
                                           Largest FMI       =     0.0786
                                           Complete DF       =        152
DF adjustment:    Small sample             DF:     min       =     116.15
                                                   avg       =     145.79
                                                   max       =     150.01
Model F test:       Equal FMI              F( 10,  150.0)    =      14.20
Within VCE type:          OLS              Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	22716.59	19642.33	1.16	0.249	-16094.97	61528.16
Race						
AfrAm	26580.15	62643.99	0.42	0.672	-97198.83	150359.1
Race#c.LnNFLw3						
AfrAm	-43479.33	28496.83	-1.53	0.129	-99786.48	12827.82
Sex	145255.9	14342.45	10.13	0.000	116916.5	173595.3

w1Age	-2462.693	910.2179	-2.71	0.008	-4261.258	-664.1284
Race	0	(omitted)				
PovStat	-3156.358	16906.16	-0.19	0.852	-36561.32	30248.6
TIME_V1SCAN	-16.72059	12.11356	-1.38	0.170	-40.65601	7.21483
w1BMI	791.6824	1107.831	0.71	0.476	-1397.289	2980.654
w1dxDiabetes	388.9963	14358.16	0.03	0.978	-28048.75	28826.74
w1Glucose	-51.74718	339.3108	-0.15	0.879	-722.5802	619.0858
_cons	1048614	74723.74	14.03	0.000	900954.5	1196274

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

```
Multiple-imputation estimates               Imputations      =          5
Linear regression                           Number of obs    =        163
                                            Average RVI      =     0.0033
                                            Largest FMI      =     0.0358
                                            Complete DF      =        152
DF adjustment:    Small sample              DF:     min      =     138.82
                                                    avg      =     148.58
                                                    max      =     150.03
Model F test:       Equal FMI               F( 10,  150.0)   =      16.36
Within VCE type:          OLS               Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	5422.35	10415.87	0.52	0.603	-15158.46	26003.16
Race						
AfrAm	-8633.989	33227.79	-0.26	0.795	-74289.27	57021.29
Race#c.LnNFLw3						
AfrAm	-17359.73	15115.33	-1.15	0.253	-47226.29	12506.83
Sex	76827.26	7606.729	10.10	0.000	61797.04	91857.48
w1Age	-2010.811	482.3949	-4.17	0.000	-2963.996	-1057.627
Race	0	(omitted)				
PovStat	-4182.453	8965.939	-0.47	0.642	-21898.27	13533.36
TIME_V1SCAN	-5.207971	6.422532	-0.81	0.419	-17.8983	7.482357
w1BMI	519.1095	587.5406	0.88	0.378	-641.816	1680.035
w1dxDiabetes	-4236.175	7454.499	-0.57	0.571	-18975.21	10502.86
w1Glucose	82.91906	178.3162	0.47	0.643	-269.4776	435.3157
_cons	629366.3	39555.47	15.91	0.000	551205.4	707527.3

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

```
Multiple-imputation estimates               Imputations      =          5
Linear regression                           Number of obs    =        163
                                            Average RVI      =     0.0093
                                            Largest FMI      =     0.0980
                                            Complete DF      =        152
DF adjustment:    Small sample              DF:     min      =     105.21
                                                    avg      =     144.36
                                                    max      =     149.99
Model F test:       Equal FMI               F( 10,  149.9)   =       8.87
Within VCE type:          OLS               Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	10226.38	9771.64	1.05	0.297	-9081.575	29534.34
Race						
AfrAm	20466.96	31159.95	0.66	0.512	-41102.29	82036.21
Race#c.LnNFLw3						
AfrAm	-18304.33	14174.75	-1.29	0.199	-46312.34	9703.668
Sex	58669.2	7134.439	8.22	0.000	44572.18	72766.22
w1Age	-813.5718	452.9296	-1.80	0.074	-1708.554	81.41078
Race	0	(omitted)				
PovStat	-4255.525	8410.206	-0.51	0.614	-20873.3	12362.25
TIME_V1SCAN	-9.609257	6.026755	-1.59	0.113	-21.51767	2.299158
w1BMI	240.6124	551.0835	0.44	0.663	-848.2783	1329.503
w1dxDiabetes	1777.503	7212.503	0.25	0.806	-12523.23	16078.23
w1Glucose	-51.99397	169.5266	-0.31	0.760	-387.2432	283.2553
_cons	419597.5	37202.61	11.28	0.000	346080.6	493114.3

```
393 .
394 . save, replace
    file finaldata_imputed_final.dta saved

395 .
396 .
397 . ***********MODEL 4: MODEL 2+liver/kidney disease******
398 .
399 . //AFRICAN-AMERICAN//
400 .
401 . use finaldata_imputed_final,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   =   67
     Average RVI   =   0.1095
     Largest FMI   =   0.6122
     Complete DF   =   55
DF adjustment: **Small sample**   DF: min   =   8.58
     avg   =   45.60
     max   =   52.93
Model F test: **Equal FMI**   F(11, 51.6)   =   4.75
Within VCE type: **OLS**   Prob > F   =   0.0001

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-21106.74	26303.63	-0.80	0.426	-73881.76	31668.28
Sex	167478.9	30863.04	5.43	0.000	103862.9	231094.9
w1Age	-1743.946	1551.212	-1.12	0.266	-4855.609	1367.718
Race	0	(omitted)				
PovStat	25214.25	25385.07	0.99	0.325	-25707.18	76135.67
TIME_V1SCAN	-17.86296	19.28698	-0.93	0.359	-56.5593	20.83338
w1BMI	1980.781	1895.379	1.05	0.301	-1828.218	5789.781
w1Creatinine	-55232.39	69693.64	-0.79	0.449	-214071.7	103606.9
w1USpecGrav	143930	1619319	0.09	0.930	-3104992	3392852
w1BUN	26.40974	3777.046	0.01	0.994	-7574.417	7627.237
w1ALP	698.7143	574.3849	1.22	0.229	-454.4453	1851.874

	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
w1UricAcid	-11280.18	9031.599	-1.25	0.217	-29395.84	6835.489
_cons	850238.9	1644862	0.52	0.607	-2449907	4150385

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	=	67
		Average RVI	=	0.0877
		Largest FMI	=	0.5667
		Complete DF	=	55
DF adjustment: **Small sample**		DF: min	=	9.84
		avg	=	46.78
		max	=	52.96
Model F test: **Equal FMI**		F(11, 52.1)	=	4.72
Within VCE type: **OLS**		Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
LnNFLw3	-13361.58	15267.11	-0.88	0.385	-43985.47	17262.32
Sex	86542.33	17400.56	4.97	0.000	51012.31	122072.3
w1Age	-1823.45	903.7834	-2.02	0.049	-3636.349	-10.55097
Race	0	(omitted)				
PovStat	14511.11	14807.71	0.98	0.332	-15193.72	44215.94
TIME_V1SCAN	-9.34922	11.21326	-0.83	0.408	-31.8434	13.14496
w1BMI	865.5422	1094.797	0.79	0.433	-1332.602	3063.686
w1Creatinine	-12927.38	38738.75	-0.33	0.746	-99434.07	73579.31
w1USpecGrav	-162918.4	939339.5	-0.17	0.863	-2047032	1721195
w1BUN	1187.884	2176.393	0.55	0.588	-3185.643	5561.411
w1ALP	415.016	333.2557	1.25	0.219	-253.7879	1083.82
w1UricAcid	-6806.859	5267.677	-1.29	0.202	-17373.09	3759.371
_cons	751765.8	954309	0.79	0.434	-1162376	2665908

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	=	67
		Average RVI	=	0.1161
		Largest FMI	=	0.6137
		Complete DF	=	55
DF adjustment: **Small sample**		DF: min	=	8.54
		avg	=	45.11
		max	=	52.89
Model F test: **Equal FMI**		F(11, 51.5)	=	3.22
Within VCE type: **OLS**		Prob > F	=	0.0022

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]
LnNFLw3	-7493.207	12425.71	-0.60	0.549	-32429.15	17442.73
Sex	67102.63	14543.52	4.61	0.000	37119.27	97085.99
w1Age	-606.2216	733.5121	-0.83	0.412	-2077.983	865.5401
Race	0	(omitted)				
PovStat	3641.831	11966.15	0.30	0.762	-20363.1	27646.76
TIME_V1SCAN	-5.73335	9.115668	-0.63	0.532	-24.02697	12.56027
w1BMI	778.6048	899.5319	0.87	0.391	-1030.792	2588.001
w1Creatinine	-33874.4	32895.52	-1.03	0.331	-108901	41152.22
w1USpecGrav	102164.6	765831.2	0.13	0.894	-1434808	1639137
w1BUN	-162.5327	1780.532	-0.09	0.928	-3746.152	3421.086
w1ALP	241.9636	271.7268	0.89	0.377	-303.7988	787.7259
w1UricAcid	-3683.617	4254.443	-0.87	0.390	-12217.37	4850.139
_cons	309663	777732.3	0.40	0.692	-1251157	1870482

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

411 .
412 .
413 .
414 . //WHITES//
415 .
416 . use finaldata_imputed_final,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    =         96
                                           Average RVI      =     0.0213
                                           Largest FMI      =     0.2145
                                           Complete DF      =         84
DF adjustment:   Small sample              DF:      min     =      40.48
                                                    avg     =      77.05
                                                    max     =      82.01
Model F test:       Equal FMI              F(  11,   81.9)  =       7.87
Within VCE type:         OLS               Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	23067.37	21207.05	1.09	0.280	-19123.55	65258.3
Sex	182854.7	25730.79	7.11	0.000	131583.7	234125.8
w1Age	-2115.63	1227.35	-1.72	0.089	-4557.25	325.9903
Race	0	(omitted)				
PovStat	-24563.2	22763.36	-1.08	0.284	-69847.07	20720.68
TIME_V1SCAN	-24.85939	15.77923	-1.58	0.119	-56.25171	6.532923
w1BMI	2456.991	1644.725	1.49	0.139	-814.9075	5728.89
w1Creatinine	14450.49	63234.34	0.23	0.820	-113304	142205
w1USpecGrav	2108921	1893185	1.11	0.269	-1658332	5876175
w1BUN	-12.81054	2732.716	-0.00	0.996	-5454.611	5428.99
w1ALP	121.8372	446.6321	0.27	0.786	-766.7101	1010.385
w1UricAcid	-23052.68	7860.319	-2.93	0.004	-38689.34	-7416.025
_cons	-1080671	1899720	-0.57	0.571	-4860983	2699640

```
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    =         96
                                           Average RVI      =     0.0304
                                           Largest FMI      =     0.2804
                                           Complete DF      =         84
DF adjustment:   Small sample              DF:      min     =      30.95
                                                    avg     =      76.24
                                                    max     =      82.05
Model F test:       Equal FMI              F(  11,   81.7)  =       8.26
Within VCE type:         OLS               Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3983.586	10891.09	0.37	0.715	-17684.99	25652.16
Sex	92182.66	13231.97	6.97	0.000	65810.29	118555
w1Age	-1884.819	629.9325	-2.99	0.004	-3137.995	-631.6426
Race	0	(omitted)				
PovStat	-17254.83	11670.39	-1.48	0.143	-40470.75	5961.095
TIME_V1SCAN	-6.47528	8.096818	-0.80	0.426	-22.58389	9.63333
w1BMI	1282.648	844.3755	1.52	0.133	-397.1398	2962.436
w1Creatinine	12276.21	33656.52	0.36	0.718	-56371.28	80923.69
w1USpecGrav	985306.9	965855.2	1.02	0.311	-936210.4	2906824
w1BUN	224.906	1404.613	0.16	0.873	-2572.623	3022.435
w1ALP	186.131	229.3114	0.81	0.419	-270.0858	642.3478
w1UricAcid	-9457.111	4036.137	-2.34	0.022	-17486.54	-1427.682
_cons	-373401.7	969161.1	-0.39	0.701	-2301514	1554711

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

Multiple-imputation estimates

Linear regression

Imputations	=	5
Number of obs	=	96
Average RVI	=	0.0060
Largest FMI	=	0.0604
Complete DF	=	84

DF adjustment: **Small sample**

DF:	min	=	72.79
	avg	=	81.07
	max	=	82.07

Model F test: **Equal FMI**

Within VCE type: **OLS**

F(11, 82.0)	=	5.60
Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	12096.35	10925.07	1.11	0.271	-9637.846	33830.55
Sex	80273.46	12993.02	6.18	0.000	54421.35	106125.6
w1Age	-605.8772	632.6773	-0.96	0.341	-1864.461	652.7066
Race	0	(omitted)				
PovStat	-10940.81	11735.52	-0.93	0.354	-34286.2	12404.59
TIME_V1SCAN	-15.42749	8.120945	-1.90	0.061	-31.58262	.7276377
w1BMI	1168.769	848.109	1.38	0.172	-518.3783	2855.917
w1Creatinine	-388.5573	30130.06	-0.01	0.990	-60440.65	59663.54
w1USpecGrav	713484.8	970518.9	0.74	0.464	-1217257	2644227
w1BUN	-94.26669	1385.885	-0.07	0.946	-2851.402	2662.868
w1ALP	8.312657	230.3047	0.04	0.971	-449.8593	466.4846
w1UricAcid	-11613.14	4053.836	-2.86	0.005	-19677.44	-3548.833
_cons	-301224.7	973566.2	-0.31	0.758	-2238028	1635578

424 .

425 . save, replace

   file **finaldata_imputed_final.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	=	163	
			Average RVI	=	0.0241	
			Largest FMI	=	0.2515	
			Complete DF	=	149	
DF adjustment:	**Small sample**		DF: min	=	45.46	
			avg	=	137.18	
			max	=	146.83	
Model F test:	**Equal FMI**		F(13, 146.6)	=	12.47	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	**24066.59**	**18750.7**	**1.28**	**0.201**	**-12989.77**	**61122.96**
Race						
AfrAm	**22565.61**	**60764.39**	**0.37**	**0.711**	**-97530.14**	**142661.4**
Race#c.LnNFLw3						
AfrAm	**-37775.42**	**27417.16**	**-1.38**	**0.170**	**-91960.93**	**16410.09**
Sex	**177006.8**	**18240.36**	**9.70**	**0.000**	**140914.7**	**213098.8**
w1Age	**-1937.11**	**897.4539**	**-2.16**	**0.033**	**-3710.74**	**-163.4788**
Race	**0**	(omitted)				
PovStat	**-2700.272**	**16531.2**	**-0.16**	**0.870**	**-35370.1**	**29969.56**
TIME_V1SCAN	**-17.62272**	**11.71601**	**-1.50**	**0.135**	**-40.77719**	**5.531738**
w1BMI	**2250.683**	**1192.022**	**1.89**	**0.061**	**-105.1852**	**4606.551**
w1Creatinine	**-30681.53**	**39753.8**	**-0.77**	**0.444**	**-110727.5**	**49364.4**
w1USpecGrav	**778522.2**	**1198472**	**0.65**	**0.517**	**-1590013**	**3147057**
w1BUN	**372.98**	**2107.373**	**0.18**	**0.860**	**-3794.121**	**4540.081**
w1ALP	**292.6561**	**337.6685**	**0.87**	**0.388**	**-374.6666**	**959.9788**
w1UricAcid	**-17996.88**	**5790.678**	**-3.11**	**0.002**	**-29440.83**	**-6552.938**
_cons	**231230.3**	**1206576**	**0.19**	**0.848**	**-2153321**	**2615782**

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	=	163	
			Average RVI	=	0.0191	
			Largest FMI	=	0.2232	
			Complete DF	=	149	
DF adjustment:	**Small sample**		DF: min	=	52.54	
			avg	=	138.21	
			max	=	146.99	
Model F test:	**Equal FMI**		F(13, 146.7)	=	13.73	
Within VCE type:	**OLS**		Prob > F	=	0.0000	

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	4974.304	10042.65	0.50	0.621	-14872.59	24821.2
Race						
AfrAm	-9038.119	32502.1	-0.28	0.781	-73273.36	55197.12
Race#c.LnNFLw3						
AfrAm	-15273.44	14668.12	-1.04	0.299	-44261.76	13714.88
Sex	90462.01	9747.609	9.28	0.000	71177.97	109746.1
w1Age	-1906.518	480.0128	-3.97	0.000	-2855.136	-957.8997
Race	0	(omitted)				
PovStat	-3834.442	8853.092	-0.43	0.666	-21330.3	13661.41
TIME_V1SCAN	-5.520893	6.271484	-0.88	0.380	-17.9151	6.873312
w1BMI	1122.881	637.0606	1.76	0.080	-136.1186	2381.88
w1Creatinine	-6027.905	20958.36	-0.29	0.775	-48073.64	36017.83
w1USpecGrav	317337.3	643358.3	0.49	0.623	-954192.2	1588867
w1BUN	677.3781	1124.375	0.60	0.548	-1545.497	2900.253
w1ALP	267.3243	180.7384	1.48	0.141	-89.85764	624.5062
w1UricAcid	-8300.245	3099.469	-2.68	0.008	-14425.54	-2174.949
_cons	291668.4	647797.6	0.45	0.653	-988639.5	1571976

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    =        163
                                           Average RVI      =     0.0391
                                           Largest FMI      =     0.3475
                                           Complete DF      =        149
DF adjustment:    Small sample             DF:      min     =      29.05
                                                    avg     =     132.36
                                                    max     =     146.74
Model F test:        Equal FMI             F( 13,  146.0)   =       7.90
Within VCE type:          OLS              Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	12172.49	9409.995	1.29	0.198	-6426.495	30771.47
Race						
AfrAm	19887.16	30458.87	0.65	0.515	-40319.56	80093.88
Race#c.LnNFLw3						
AfrAm	-16247.99	13730.73	-1.18	0.239	-43386.63	10890.66
Sex	75030.49	9259.976	8.10	0.000	56679.57	93381.42
w1Age	-527.3878	450.0889	-1.17	0.243	-1416.995	362.2191
Race	0	(omitted)				
PovStat	-3850.953	8257.281	-0.47	0.642	-20169.51	12467.6
TIME_V1SCAN	-10.00651	5.857145	-1.71	0.090	-21.58234	1.569325
w1BMI	1005.837	599.0167	1.68	0.095	-178.2792	2189.953
w1Creatinine	-21654	21026.25	-1.03	0.312	-64654.33	21346.34
w1USpecGrav	211285	603200.3	0.35	0.727	-981102.5	1403672
w1BUN	1.875644	1066.303	0.00	0.999	-2108.554	2112.305
w1ALP	75.38976	168.8291	0.45	0.656	-258.2699	409.0495
w1UricAcid	-8306.682	2894.266	-2.87	0.005	-14026.64	-2586.722
_cons	194069.6	607248	0.32	0.750	-1006317	1394456

```
434 .
435 .
436 . save, replace
    file finaldata_imputed_final.dta saved

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

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	67
		Average RVI	=	0.0309
		Largest FMI	=	0.2529
		Complete DF	=	57
DF adjustment: **Small sample**		DF: min	=	27.49
		avg	=	51.97
		max	=	55.02
Model F test: **Equal FMI**		F(9, 54.8)	=	5.51
Within VCE type: **OLS**		Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-16937.98	25858.3	-0.66	0.515	-68776.41	34900.45
Sex	127607.9	21411.54	5.96	0.000	84696.83	170519.1
w1Age	-2539.304	1397.017	-1.82	0.075	-5339.249	260.6422
Race	0	(omitted)				
PovStat	25216.31	25874.3	0.97	0.334	-26644.73	77077.35
TIME_V1SCAN	-14.01173	20.22897	-0.69	0.491	-54.56766	26.54419
w1BMI	915.2634	1725.174	0.53	0.598	-2542.032	4372.559
w1TotalD	651.6104	1866.755	0.35	0.730	-3175.481	4478.702
w1Albumin	20383.11	38495.71	0.53	0.599	-56763.42	97529.63
w1EosinPct	2102.373	5783.516	0.36	0.718	-9488.187	13692.93
_cons	939962.4	209903.2	4.48	0.000	519244.4	1360680

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	67
		Average RVI	=	0.0253
		Largest FMI	=	0.2176
		Complete DF	=	57
DF adjustment: **Small sample**		DF: min	=	31.02
		avg	=	52.42
		max	=	55.08
Model F test: **Equal FMI**		F(9, 54.9)	=	5.65
Within VCE type: **OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-7019.624	14899.08	-0.47	0.639	-36889.06	22849.81
Sex	66333.34	12321.61	5.38	0.000	41640.34	91026.33
w1Age	-2102.289	803.4807	-2.62	0.011	-3712.542	-492.0357
Race	0	(omitted)				
PovStat	12433.58	14887.55	0.84	0.407	-17404.77	42271.93
TIME_V1SCAN	-7.346229	11.62912	-0.63	0.530	-30.65822	15.96576
w1BMI	502.7627	993.0502	0.51	0.615	-1487.293	2492.818
w1TotalD	5.280335	1054.468	0.01	0.996	-2145.251	2155.812
w1Albumin	11610.41	22159.42	0.52	0.602	-32796.81	56017.64
w1EosinPct	2456.338	3328.781	0.74	0.464	-4214.585	9127.26
_cons	562660.4	120665.9	4.66	0.000	320827.5	804493.3

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

Multiple-imputation estimates   Imputations   =   5
Linear regression   Number of obs   =   67
                                                   Average RVI   =   0.0194
                                                   Largest FMI   =   0.1583
                                                   Complete DF   =   57
DF adjustment: **Small sample**   DF: min   =   37.83
                                                            avg   =   53.09
                                                            max   =   54.99
Model F test: **Equal FMI**   F(9,   55.0)   =   3.76
Within VCE type: **OLS**   Prob > F   =   0.0010

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-7746.62	12082.67	-0.64	0.524	-31962.94	16469.7
Sex	50561.9	10055.55	5.03	0.000	30408.67	70715.13
w1Age	-893.6316	655.3507	-1.36	0.178	-2207.082	419.8187
Race	0	(omitted)				
PovStat	4765.397	12135.13	0.39	0.696	-19556.88	29087.67
TIME_V1SCAN	-3.916557	9.460423	-0.41	0.681	-22.87928	15.04616
w1BMI	280.8179	810.0482	0.35	0.730	-1342.587	1904.223
w1TotalD	480.5137	832.6168	0.58	0.567	-1205.275	2166.302
w1Albumin	9187.302	18111.35	0.51	0.614	-27113.1	45487.7
w1EosinPct	-27.51426	2713.465	-0.01	0.992	-5465.431	5410.402
_cons	377517.5	98436.98	3.84	0.000	180222.9	574812.1

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

454 .
455 .
456 .

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

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

```
Multiple-imputation estimates                 Imputations      =          5
Linear regression                             Number of obs    =         96
                                              Average RVI      =     0.0043
                                              Largest FMI      =     0.0197
                                              Complete DF      =         86
DF adjustment:    Small sample                DF:      min      =      81.92
                                                       avg      =      83.60
                                                       max      =      84.05
Model F test:        Equal FMI                F(   9,    84.0)  =       8.16
Within VCE type:         OLS                  Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	16046.36	20722.85	0.77	0.441	-25163.01	57255.73
Sex	158350.6	20060.41	7.89	0.000	118458.3	198242.9
w1Age	-2276.04	1257.62	-1.81	0.074	-4776.949	224.8698
Race	0	(omitted)				
PovStat	-25569.53	23296.59	-1.10	0.276	-71896.96	20757.9
TIME_V1SCAN	-15.05583	16.32566	-0.92	0.359	-47.52105	17.4094
w1BMI	770.8042	1590.928	0.48	0.629	-2392.956	3934.564
w1TotalD	502.7599	974.0372	0.52	0.607	-1434.913	2440.433
w1Albumin	-1537.088	40976.37	-0.04	0.970	-83022.53	79948.35
w1EosinPct	-6289.665	4911.031	-1.28	0.204	-16059.41	3480.076
_cons	1067895	217247	4.92	0.000	635874.6	1499915

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

```
Multiple-imputation estimates                 Imputations      =          5
Linear regression                             Number of obs    =         96
                                              Average RVI      =     0.0044
                                              Largest FMI      =     0.0311
                                              Complete DF      =         86
DF adjustment:    Small sample                DF:      min      =      80.15
                                                       avg      =      83.53
                                                       max      =      84.06
Model F test:        Equal FMI                F(   9,    84.0)  =       9.12
Within VCE type:         OLS                  Prob > F         =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3026.068	10504.59	0.29	0.774	-17863.27	23915.41
Sex	81604.57	10168.25	8.03	0.000	61383.99	101825.2
w1Age	-1835.105	637.4337	-2.88	0.005	-3102.702	-567.5078
Race	0	(omitted)				
PovStat	-17942.37	11809.38	-1.52	0.132	-41426.37	5541.624
TIME_V1SCAN	-1.081421	8.275735	-0.13	0.896	-17.53852	15.37568
w1BMI	836.6178	806.6801	1.04	0.303	-767.5773	2440.813
w1TotalD	195.2798	496.6831	0.39	0.695	-793.1221	1183.682
w1Albumin	12526.72	20770.62	0.60	0.548	-28777.5	53830.94
w1EosinPct	-2004.676	2479.341	-0.81	0.421	-6935.982	2926.631
_cons	572238.2	110147.5	5.20	0.000	353196.5	791279.8

_____|_____

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

```
Multiple-imputation estimates              Imputations      =          5
Linear regression                          Number of obs    =         96
                                           Average RVI      =     0.0060
                                           Largest FMI      =     0.0301
                                           Complete DF      =         86
DF adjustment:    Small sample             DF:     min      =      80.33
                                                   avg      =      83.37
                                                   max      =      84.03
Model F test:        Equal FMI             F(   9,   84.0)  =       5.68
Within VCE type:          OLS              Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	7256.291	10604.35	0.68	0.496	-13831.57	28344.15
Sex	65229.41	10267.46	6.35	0.000	44811.24	85647.58
w1Age	-726.5485	643.5755	-1.13	0.262	-2006.373	553.2757
Race	0	(omitted)				
PovStat	-12305.49	11921	-1.03	0.305	-36011.58	11400.59
TIME_V1SCAN	-10.75486	8.354715	-1.29	0.202	-27.36914	5.859425
w1BMI	257.6138	814.1101	0.32	0.752	-1361.352	1876.58
w1TotalD	330.7719	501.0474	0.66	0.511	-666.2808	1327.824
w1Albumin	2325.446	20969.2	0.11	0.912	-39374.01	44024.9
w1EosinPct	-3491.016	2516.237	-1.39	0.169	-8497.053	1515.021
_cons	410918.9	111171	3.70	0.000	189841.9	631996

468 .
469 . save, replace
    file **finaldata_imputed_final.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    =        163
                                           Average RVI      =     0.0082
                                           Largest FMI      =     0.0762
                                           Complete DF      =        151
DF adjustment:    Small sample             DF:     min      =     116.85
                                                   avg      =     145.90
                                                   max      =     149.02
Model F test:        Equal FMI             F(  11,  149.0)  =      13.04
Within VCE type:          OLS              Prob > F         =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	20649.46	18667.97	1.11	0.270	-16238.85	57537.77
Race						
AfrAm	28361.9	62883.06	0.45	0.653	-95899.82	152623.6
Race#c.LnNFLw3						
AfrAm	-42867.06	27976.1	-1.53	0.128	-98148.45	12414.33
Sex	146348.3	14496.23	10.10	0.000	117703.3	174993.3
w1Age	-2504.355	893.0134	-2.80	0.006	-4268.979	-739.7301
Race	0	(omitted)				
PovStat	-3091.287	16901.77	-0.18	0.855	-36489.75	30307.18
TIME_V1SCAN	-15.28917	12.26507	-1.25	0.215	-39.52532	8.946989
w1BMI	745.7972	1131.915	0.66	0.511	-1490.892	2982.486
w1TotalD	492.7482	833.1571	0.59	0.555	-1157.297	2142.794
w1Albumin	3428.901	27774.2	0.12	0.902	-51453.23	58311.03
w1EosinPct	-3873.218	3652.626	-1.06	0.291	-11092.22	3345.781
_cons	1030188	152383.5	6.76	0.000	729071.8	1331303

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 =	163
		Average RVI =	0.0043
		Largest FMI =	0.0416
		Complete DF =	151
DF adjustment: **Small sample**		DF: min =	135.27
		avg =	147.68
		max =	149.03
Model F test: **Equal FMI**		F(11, 149.0) =	14.77
Within VCE type: **OLS**		Prob > F =	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	6311.697	9940.592	0.63	0.526	-13331.06	25954.45
Race						
AfrAm	-7212.419	33462.21	-0.22	0.830	-73335.14	58910.3
Race#c.LnNFLw3						
AfrAm	-17456.65	14897.25	-1.17	0.243	-46893.83	11980.53
Sex	75932.05	7717.899	9.84	0.000	60681.35	91182.76
w1Age	-2064.31	475.4197	-4.34	0.000	-3003.748	-1124.871
Race	0	(omitted)				
PovStat	-4513.838	8998.14	-0.50	0.617	-22294.33	13266.65
TIME_V1SCAN	-3.810745	6.530407	-0.58	0.560	-16.71496	9.093468
w1BMI	614.7557	602.7659	1.02	0.309	-576.3193	1805.831
w1TotalD	141.699	436.1546	0.32	0.746	-720.8653	1004.263
w1Albumin	9026.166	14792.3	0.61	0.543	-20203.57	38255.91
w1EosinPct	-571.4548	1938.896	-0.29	0.769	-4403.07	3260.161
_cons	591336.3	81126.24	7.29	0.000	431029	751643.7

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    =        163
                                               Average RVI      =     0.0080
                                               Largest FMI      =     0.0676
                                               Complete DF      =        151
    DF adjustment:    Small sample             DF:     min      =     121.62
                                                       avg      =     146.19
                                                       max      =     149.01
    Model F test:      Equal FMI               F( 11, 149.0)    =       8.40
    Within VCE type:        OLS                Prob > F         =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	8756.444	9251.378	0.95	0.345	-9524.557	27037.45
Race						
AfrAm	22661.05	31155.24	0.73	0.468	-38904.06	84226.15
Race#c.LnNFLw3						
AfrAm	-18258.34	13862.26	-1.32	0.190	-45650.51	9133.827
Sex	59434.28	7185.237	8.27	0.000	45235.92	73632.64
w1Age	-816.4029	442.4632	-1.85	0.067	-1690.726	57.91993
Race	0	(omitted)				
PovStat	-4133.171	8374.816	-0.49	0.622	-20682.11	12415.77
TIME_V1SCAN	-8.696228	6.077454	-1.43	0.155	-20.70549	3.313033
w1BMI	241.6637	560.8674	0.43	0.667	-866.6243	1349.952
w1TotalD	338.1265	411.0298	0.82	0.412	-475.5735	1151.826
w1Albumin	3660.696	13761.47	0.27	0.791	-23532.13	30853.53
w1EosinPct	-2558.34	1812.258	-1.41	0.160	-6140.242	1023.562
_cons	397815	75495.83	5.27	0.000	248632.5	546997.6

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

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

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

495 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         67
                                           Average RVI     =     0.0032
                                           Largest FMI     =     0.0292
                                           Complete DF     =         58
DF adjustment:    Small sample             DF:     min     =      54.06
                                                   avg     =      55.85
                                                   max     =      56.10
Model F test:        Equal FMI             F(  8,   56.1)  =       6.71
Within VCE type:          OLS              Prob > F        =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-18990.04	24822.41	-0.77	0.447	-68713.4	30733.33
Sex	123065.4	21450.98	5.74	0.000	80095.08	166035.8
w1Age	-2458.394	1359.778	-1.81	0.076	-5182.254	265.4656
Race	0	(omitted)				
PovStat	24323.54	25300.41	0.96	0.340	-26357.6	75004.68
TIME_V1SCAN	-16.84109	18.94538	-0.89	0.378	-54.79252	21.11034
w1BMI	110.4682	1684.267	0.07	0.948	-3263.406	3484.343
w1currdrugs	-2459.814	22892.33	-0.11	0.915	-48355.08	43435.45
w1SRH	16758.96	13377.53	1.25	0.215	-10038.89	43556.81
_cons	1044869	89302.01	11.70	0.000	865981.2	1223757

496 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

```
Multiple-imputation estimates              Imputations     =          5
Linear regression                          Number of obs   =         67
                                           Average RVI     =     0.0039
                                           Largest FMI     =     0.0127
                                           Complete DF     =         58
DF adjustment:    Small sample             DF:     min     =      55.38
                                                   avg     =      55.89
                                                   max     =      56.07
Model F test:        Equal FMI             F(  8,   56.1)  =       7.24
Within VCE type:          OLS              Prob > F        =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-8673.4	14104.21	-0.61	0.541	-36927.44	19580.64
Sex	66814.24	12178.8	5.49	0.000	42417.86	91210.63
w1Age	-2161.101	772.8708	-2.80	0.007	-3709.366	-612.8366
Race	0	(omitted)				
PovStat	10603.32	14370.27	0.74	0.464	-18183.33	39389.98
TIME_V1SCAN	-7.502366	10.79226	-0.70	0.490	-29.125	14.12027
w1BMI	-108.8176	956.7829	-0.11	0.910	-2025.464	1807.829
w1currdrugs	-16645.63	12893.85	-1.29	0.202	-42481.52	9190.273
w1SRH	9234.657	7602.395	1.21	0.230	-5995.105	24464.42
_cons	629541.5	50757.03	12.40	0.000	527861.2	731221.7

497 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         67
                                           Average RVI       =     0.0062
                                           Largest FMI       =     0.0447
                                           Complete DF       =         58
DF adjustment:   Small sample              DF:      min      =      52.55
                                                    avg      =      55.58
                                                    max      =      56.08
Model F test:       Equal FMI              F(   8,    56.1)  =       4.60
Within VCE type:         OLS               Prob > F          =     0.0002
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	-8182.993	11625.55	-0.70	0.484	-31471.55	15105.56
Sex	46755.06	10051.45	4.65	0.000	26619.05	66891.08
w1Age	-794.3126	637.2662	-1.25	0.218	-2070.939	482.3138
Race	0	(omitted)				
PovStat	5629.633	11856.89	0.47	0.637	-18123.21	29382.47
TIME_V1SCAN	-6.232301	8.872087	-0.70	0.485	-24.0053	11.54069
w1BMI	101.6009	789.0999	0.13	0.898	-1479.174	1682.376
w1currdrugs	11744.38	10795.56	1.09	0.282	-9913.086	33401.84
w1SRH	6170.791	6260.129	0.99	0.329	-6369.369	18710.95
_cons	418344.5	41898.32	9.98	0.000	334405	502284

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

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

507 .
508 .
509 . //ANALYSIS A//
510 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         96
                                           Average RVI       =     0.0059
                                           Largest FMI       =     0.0458
                                           Complete DF       =         87
DF adjustment:   Small sample              DF:      min      =      78.36
                                                    avg      =      84.17
                                                    max      =      85.05
Model F test:       Equal FMI              F(   8,    85.0)  =       8.97
Within VCE type:         OLS               Prob > F          =     0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	17844.57	20754.9	0.86	0.392	-23421.84	59110.98
Sex	159070.8	19959.99	7.97	0.000	119382.5	198759
w1Age	-2148.494	1262.629	-1.70	0.092	-4658.945	361.957
Race	0	(omitted)				
PovStat	-21203.57	24117.87	-0.88	0.382	-69156.62	26749.47
TIME_V1SCAN	-19.40213	16.31085	-1.19	0.238	-51.83353	13.02926
w1BMI	1084.609	1536.294	0.71	0.482	-1969.966	4139.183
w1currdrugs	16981.18	29101.79	0.58	0.561	-40951.87	74914.24
w1SRH	6338.92	13041.21	0.49	0.628	-19590.29	32268.13
_cons	1021911	105502.3	9.69	0.000	812136.1	1231686

511 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         96
                                           Average RVI       =     0.0076
                                           Largest FMI       =     0.0662
                                           Complete DF       =         87
DF adjustment:    Small sample             DF:      min      =      73.96
                                                    avg      =      83.68
                                                    max      =      85.06
Model F test:        Equal FMI             F(   8,   85.0)   =      10.23
Within VCE type:           OLS             Prob > F          =     0.0000
```

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	3475.003	10467.51	0.33	0.741	-17337.07	24287.08
Sex	83260.73	10072.65	8.27	0.000	63232.19	103289.3
w1Age	-1842.752	637.0447	-2.89	0.005	-3109.373	-576.131
Race	0	(omitted)				
PovStat	-15230.85	12169.55	-1.25	0.214	-39427.43	8965.725
TIME_V1SCAN	-4.122462	8.218372	-0.50	0.617	-20.46268	12.21775
w1BMI	777.4169	775.3579	1.00	0.319	-764.2253	2319.059
w1currdrugs	3672.843	14831.12	0.25	0.805	-25879.06	33224.75
w1SRH	4393.82	6578.629	0.67	0.506	-8686.116	17473.76
_cons	617096.6	53265.1	11.59	0.000	511184.7	723008.5

512 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==1 & Race

```
Multiple-imputation estimates              Imputations       =          5
Linear regression                          Number of obs     =         96
                                           Average RVI       =     0.0071
                                           Largest FMI       =     0.0379
                                           Complete DF       =         87
DF adjustment:    Small sample             DF:      min      =      79.88
                                                    avg      =      84.18
                                                    max      =      85.02
Model F test:        Equal FMI             F(   8,   85.0)   =       6.23
Within VCE type:           OLS             Prob > F          =     0.0000
```

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	8366.685	10615.76	0.79	0.433	-12740.93	29474.3
Sex	67116.06	10203.63	6.58	0.000	46827.02	87405.09
w1Age	-621.963	645.4484	-0.96	0.338	-1905.303	661.3769
Race	0	(omitted)				
PovStat	-9515.98	12330.57	-0.77	0.442	-34032.93	15000.97
TIME_V1SCAN	-13.49327	8.376582	-1.61	0.111	-30.15185	3.165305
w1BMI	433.9861	784.8982	0.55	0.582	-1126.596	1994.568
w1currdrugs	16103.73	14814.05	1.09	0.280	-13377.87	45585.32
w1SRH	1701.812	6667.262	0.26	0.799	-11554.55	14958.18
_cons	399771.4	53906.22	7.42	0.000	292587.9	506954.9

```
513 .
514 .
515 . save, replace
    file finaldata_imputed_final.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  if sample_
```

Multiple-imputation estimates   Imputations =   5
Linear regression   Number of obs =   163
                 Average RVI = 0.0007
                 Largest FMI = 0.0074
                 Complete DF =   152
DF adjustment: **Small sample**   DF: min = 148.69
                     avg = 149.91
                     max = 150.04
Model F test: **Equal FMI**   F(10, 150.0) = 14.52
Within VCE type: **OLS**   Prob > F   = 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	21306.3	18596.04	1.15	0.254	-15437.64	58050.25
Race						
AfrAm	26325.66	61361.21	0.43	0.669	-94918.03	147569.4
Race#c.LnNFLw3						
AfrAm	-43281.09	27872.25	-1.55	0.123	-98353.9	11791.73
Sex	143059.3	14157.01	10.11	0.000	115086.4	171032.2
w1Age	-2460.212	890.6882	-2.76	0.006	-4220.125	-700.2996
Race	0	(omitted)				
PovStat	-458.4515	17151.22	-0.03	0.979	-34347.6	33430.7
TIME_V1SCAN	-18.11843	12.0463	-1.50	0.135	-41.92075	5.683882
w1BMI	714.0932	1091.852	0.65	0.514	-1443.3	2871.486
w1currdrugs	1655.304	17730.85	0.09	0.926	-33381.68	36692.29
w1SRH	10035.35	9110.431	1.10	0.272	-7965.966	28036.67
_cons	1028676	73837.18	13.93	0.000	882781.1	1174572

522 . mi estimate: reg GM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	163
			Average RVI	=	0.0031
			Largest FMI	=	0.0233
			Complete DF	=	152
DF adjustment:	**Small sample**		DF: min	=	143.96
			avg	=	149.23
			max	=	150.01
Model F test:	**Equal FMI**		F(10, 150.0)	=	16.87
Within VCE type:	**OLS**		Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	5967.338	9822.488	0.61	0.544	-13441	25375.68
Race						
AfrAm	-8485.891	32414.4	-0.26	0.794	-72533.9	55562.12
Race#c.LnNFLw3						
AfrAm	-16898.32	14724.8	-1.15	0.253	-45993.26	12196.62
Sex	74995.9	7476.507	10.03	0.000	60223.04	89768.76
w1Age	-2131.608	470.7044	-4.53	0.000	-3061.686	-1201.531
Race	0	(omitted)				
PovStat	-4053.685	9068.401	-0.45	0.656	-21972.36	13864.99
TIME_V1SCAN	-5.247167	6.376522	-0.82	0.412	-17.84713	7.352796
w1BMI	386.1013	577.091	0.67	0.504	-754.192	1526.394
w1currdrugs	-9446.047	9437.196	-1.00	0.319	-28099.41	9207.321
w1SRH	6449.939	4813.175	1.34	0.182	-3060.491	15960.37
_cons	634275.5	39048.58	16.24	0.000	557117.2	711433.8

523 . mi estimate: reg WM c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final2==

Multiple-imputation estimates			Imputations	=	5
Linear regression			Number of obs	=	163
			Average RVI	=	0.0022
			Largest FMI	=	0.0081
			Complete DF	=	152
DF adjustment:	**Small sample**		DF: min	=	148.53
			avg	=	149.68
			max	=	149.95
Model F test:	**Equal FMI**		F(10, 150.0)	=	9.23
Within VCE type:	**OLS**		Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
LnNFLw3	9561.409	9233.443	1.04	0.302	-8683.052	27805.87
Race						
AfrAm	20565.18	30472.64	0.67	0.501	-39646.2	80776.57
Race#c.LnNFLw3						
AfrAm	-18942.02	13839.89	-1.37	0.173	-46288.43	8404.38
Sex	58591.66	7030.463	8.33	0.000	44700.05	72483.28
w1Age	-731.255	442.2682	-1.65	0.100	-1605.138	142.6283
Race	0	(omitted)				
PovStat	-1921.699	8518.658	-0.23	0.822	-18753.92	14910.52
TIME_V1SCAN	-10.72843	5.99601	-1.79	0.076	-22.57661	1.119747
w1BMI	319.7671	542.0995	0.59	0.556	-751.3729	1390.907

w1currdrugs	11071.4	8804.465	1.26	0.211	-6326.796	28469.59
w1SRH	2762.874	4526.976	0.61	0.543	-6182.151	11707.9
_cons	401664.7	36664.85	10.96	0.000	329218	474111.5

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

526 .
527 . capture log close