

(R)

Statistics/Data analysis

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1 .
2 .
3 . //////////////////////////////////TABLE S5: NFL at v1 AND v3 vs. Hippocampus and LnLesion volume a
> //////////////////////////////////
>
4 . //////////////////////////////////LnNFLw1 EXPOSURE////////////////////////////////////
>
5 .
6 . *****LnNFLw1, MODELS 1 AND 2*****
7 .
8 . *****AFRICAN-AMERICAN*****
9 .
10 . **Model 1**
11 .
12 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear
13 .
14 .
15 . //ANALYSIS B//
16 . reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==2,beta
note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	2862716.16	6	477119.361	F(6, 60)	=	7.42
Residual	3859080.52	60	64318.0087	Prob > F	=	0.0000
				R-squared	=	0.4259
				Adj R-squared	=	0.3685
Total	6721796.69	66	101845.404	Root MSE	=	253.61

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	37.01924	85.37835	0.43	0.666	.0536969
Sex	94.35986	89.4878	1.05	0.296	.1469327
w1Age	-9.403321	4.137173	-2.27	0.027	-.2909126
Race	0 (omitted)				.
PovStat	-220.4509	79.69538	-2.77	0.008	-.3366095
TIME_V1SCAN	.0363506	.0606334	0.60	0.551	.0680281
ICV_volM2	.001177	.0003803	3.09	0.003	.4406397
_cons	2354.41	496.0454	4.75	0.000	.

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17 . reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==2,beta
note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	3004910.22	6	500818.369	F(6, 60)	=	7.87
Residual	3819277.05	60	63654.6176	Prob > F	=	0.0000
				R-squared	=	0.4403
				Adj R-squared	=	0.3844
Total	6824187.27	66	103396.777	Root MSE	=	252.3

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	51.49343	84.9369	0.61	0.547	.0741294
Sex	28.85917	89.0251	0.32	0.747	.0445997
w1Age	-9.461436	4.115782	-2.30	0.025	-.2905063
Race	0 (omitted)				.
PovStat	-229.4869	79.28332	-2.89	0.005	-.3477681
TIME_V1SCAN	.0697774	.0603199	1.16	0.252	.1296012
ICV_volM2	.0014927	.0003784	3.95	0.000	.5546154
_cons	2218.356	493.4806	4.50	0.000	.

```

18 .
19 . //ANALYSIS C//
20 . reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==2,beta
note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	127.853364	6	21.3088939	F(6, 60)	=	2.20
Residual	580.947536	60	9.68245894	Prob > F	=	0.0552
				R-squared	=	0.1804
				Adj R-squared	=	0.0984
Total	708.8009	66	10.7394076	Root MSE	=	3.1117

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	1.958856	1.047549	1.87	0.066	.2766971
Sex	.229464	1.09797	0.21	0.835	.0347958
w1Age	.0299782	.050761	0.59	0.557	.0903164
Race	0 (omitted)				.
PovStat	.1085031	.9778217	0.11	0.912	.0161338
TIME_V1SCAN	-.0009136	.0007439	-1.23	0.224	-.1664951
ICV_volM2	6.07e-06	4.67e-06	1.30	0.198	.2213981
_cons	-5.402901	6.086224	-0.89	0.378	.

```

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

```

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26 .
27 .
28 . //ANALYSIS B//
29 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1 &

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	59
DF adjustment: Small sample	DF: min	=	57.10
	avg	=	57.10
	max	=	57.10
Model F test: Equal FMI	F(7, 57.1)	=	6.25
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
LnNFLw1	32.11934	99.4511	0.32	0.748	-167.0207 231.2594
Sex	93.04378	91.22105	1.02	0.312	-89.61652 275.7041
w1Age	-9.163247	4.832579	-1.90	0.063	-18.83996 .5134698
Race	0 (omitted)				
PovStat	-219.571	80.85708	-2.72	0.009	-381.4786 -57.66346
TIME_V1SCAN	.0359795	.0612562	0.59	0.559	-.0866794 .1586384
w1BMI	-.5734885	5.827083	-0.10	0.922	-12.24159 11.09462
ICV_volM2	.0011788	.0003839	3.07	0.003	.00041 .0019475
_cons	2368.469	520.1887	4.55	0.000	1326.848 3410.091

30 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     67
                                   Average RVI       =     0.0000
                                   Largest FMI       =     0.0000
                                   Complete DF       =     59
DF adjustment:  Small sample      DF:      min    =     57.10
                                   avg              =     57.10
                                   max              =     57.10
Model F test:      Equal FMI      F(   7,   57.1) =     6.71
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	24.64736	98.69839	0.25	0.804	-172.9855	222.2802
Sex	21.64849	90.53064	0.24	0.812	-159.6293	202.9263
w1Age	-8.146095	4.796003	-1.70	0.095	-17.74957	1.457383
Race	0 (omitted)					
PovStat	-224.6663	80.24511	-2.80	0.007	-385.3484	-63.98412
TIME_V1SCAN	.0677444	.0607926	1.11	0.270	-.0539862	.189475
w1BMI	-3.142084	5.78298	-0.54	0.589	-14.72188	8.437709
ICV_volM2	.0015023	.000381	3.94	0.000	.0007394	.0022653
_cons	2295.383	516.2516	4.45	0.000	1261.645	3329.121

31 .

32 . //ANALYSIS C//

33 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1 &

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     67
                                   Average RVI       =     0.0000
                                   Largest FMI       =     0.0000
                                   Complete DF       =     59
DF adjustment:  Small sample      DF:      min    =     57.10
                                   avg              =     57.10
                                   max              =     57.10
Model F test:      Equal FMI      F(   7,   57.1) =     2.32
Within VCE type:   OLS           Prob > F      =     0.0370

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.9399	1.193347	2.46	0.017	.5503509	5.329448
Sex	.4929658	1.094592	0.45	0.654	-1.698836	2.684768
w1Age	-.0180887	.0579877	-0.31	0.756	-.1342029	.0980255
Race	0 (omitted)					
PovStat	-.0676591	.9702312	-0.07	0.945	-2.010442	1.875124
TIME_V1SCAN	-.0008393	.000735	-1.14	0.258	-.0023111	.0006325
w1BMI	.114822	.0699211	1.64	0.106	-.0251875	.2548315
ICV_volM2	5.72e-06	4.61e-06	1.24	0.219	-3.50e-06	.0000149
_cons	-8.217721	6.241919	-1.32	0.193	-20.71649	4.281046

```

34 .
35 . save, replace
    file finaldata_imputed_final.dta saved
36 .
37 .
38 .
39 .
40 .
41 . *****WHITES*****
42 .
43 . **Model 1**
44 .
45 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear
46 .
47 .
48 . //ANALYSIS B//
49 . reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	6697729.79	6	1116288.3	F(6, 89)	=	10.91
Residual	9105486.1	89	102308.833	Prob > F	=	0.0000
				R-squared	=	0.4238
				Adj R-squared	=	0.3850
Total	15803215.9	95	166349.641	Root MSE	=	319.86

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	-110.6991	83.62192	-1.32	0.189	-.1358212
Sex	-80.57232	92.62782	-0.87	0.387	-.0982315
w1Age	-3.120432	4.72964	-0.66	0.511	-.0664901
Race	0 (omitted)				.
PovStat	-93.39347	81.673	-1.14	0.256	-.0996736
TIME_V1SCAN	.0315047	.055119	0.57	0.569	.0494804
ICV_volM2	.0019464	.0003206	6.07	0.000	.6965927
_cons	1516.627	448.738	3.38	0.001	.

```

50 . reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	9177736.02	6	1529622.67	F(6, 89)	=	14.43
Residual	9437133.54	89	106035.208	Prob > F	=	0.0000
				R-squared	=	0.4930
				Adj R-squared	=	0.4589
Total	18614869.6	95	195945.995	Root MSE	=	325.63

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	-118.779	85.13118	-1.40	0.166	-.1342784
Sex	-217.8354	94.29961	-2.31	0.023	-.2447012
w1Age	.1076977	4.815003	0.02	0.982	.0021144
Race	0 (omitted)				.
PovStat	-63.14471	83.14708	-0.76	0.450	-.0620931
TIME_V1SCAN	.0787172	.0561138	1.40	0.164	.1139121
ICV_volM2	.0025709	.0003263	7.88	0.000	.847794
_cons	891.1715	456.837	1.95	0.054	.

```

51 .
52 . //ANALYSIS C//
53 . reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	252.302212	6	42.0503686	F(6, 89)	=	2.31
Residual	1618.45205	89	18.1848545	Prob > F	=	0.0403
				R-squared	=	0.1349
				Adj R-squared	=	0.0765
Total	1870.75426	95	19.6921502	Root MSE	=	4.2644

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw1	3.223887	1.114855	2.89	0.005	.3635531
Sex	-.1040416	1.234923	-0.08	0.933	-.0116583
w1Age	-.0242348	.063056	-0.38	0.702	-.0474621
Race	0 (omitted)				.
PovStat	2.241165	1.088872	2.06	0.042	.2198375
TIME_V1SCAN	-.0010892	.0007349	-1.48	0.142	-.157232
ICV_volM2	1.88e-06	4.27e-06	0.44	0.661	.0618132
_cons	-3.457764	5.982617	-0.58	0.565	.

```

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

```

```

59 .
60 .
61 .
62 . //ANALYSIS B//
63 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1 &

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	88
DF adjustment: Small sample	DF: min	=	86.07
	avg	=	86.07
	max	=	86.07
Model F test: Equal FMI	F(7, 86.1)	=	10.00
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-103.3641	82.78595	-1.25	0.215	-267.9353	61.20711
Sex	-65.76058	91.97635	-0.71	0.477	-248.6015	117.0804
w1Age	-2.40705	4.694167	-0.51	0.609	-11.73864	6.924544
Race	0 (omitted)					
PovStat	-93.35708	80.7521	-1.16	0.251	-253.8852	67.17103
TIME_V1SCAN	.0443127	.0549901	0.81	0.423	-.0650027	.1536282
w1BMI	8.998849	5.159918	1.74	0.085	-1.258617	19.25632
ICV_volM2	.0019486	.0003169	6.15	0.000	.0013185	.0025786
_cons	1153.817	490.0292	2.35	0.021	179.6819	2127.952

64 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 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       =     88
DF adjustment:  Small sample      DF:      min    =     86.07
                                   avg              =     86.07
                                   max              =     86.07
Model F test:      Equal FMI      F(   7,   86.1) =     13.76
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-108.9208	83.19112	-1.31	0.194	-274.2975	56.45589
Sex	-197.9284	92.42651	-2.14	0.035	-381.6642	-14.19259
w1Age	1.066484	4.717142	0.23	0.822	-8.310781	10.44375
Race	0 (omitted)					
PovStat	-63.0958	81.14732	-0.78	0.439	-224.4096	98.21798
TIME_V1SCAN	.0959312	.0552592	1.74	0.086	-.0139193	.2057817
w1BMI	12.09447	5.185172	2.33	0.022	1.786802	22.40214
ICV_volM2	.0025739	.0003185	8.08	0.000	.0019408	.0032071
_cons	403.5543	492.4275	0.82	0.415	-575.3485	1382.457

65 .

66 . //ANALYSIS C//

67 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 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       =     88
DF adjustment:  Small sample      DF:      min    =     86.07
                                   avg              =     86.07
                                   max              =     86.07
Model F test:      Equal FMI      F(   7,   86.1) =      2.02
Within VCE type:   OLS           Prob > F      =     0.0613

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.258852	1.120222	2.91	0.005	1.031949	5.485754
Sex	-.0334366	1.244582	-0.03	0.979	-2.507557	2.440684
w1Age	-.0208342	.0635193	-0.33	0.744	-.1471051	.1054366
Race	0 (omitted)					
PovStat	2.241338	1.092701	2.05	0.043	.0691453	4.413531
TIME_V1SCAN	-.0010282	.0007441	-1.38	0.171	-.0025074	.000451
w1BMI	.042896	.0698217	0.61	0.541	-.0959034	.1816953
ICV_volM2	1.89e-06	4.29e-06	0.44	0.661	-6.64e-06	.0000104
_cons	-5.187217	6.630852	-0.78	0.436	-18.36877	7.994336

```

68 .
69 . save, replace
    file finaldata_imputed_final.dta saved
70 .
71 .
72 .
73 . //INTERACTION BY Race//
74 .
75 .
76 . //ANALYSIS B//
77 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_fi

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =    0.0000
                                   Largest FMI         =    0.0000
                                   Complete DF         =     153
DF adjustment:  Small sample      DF:      min      =    151.04
                                   avg                  =    151.04
                                   max                  =    151.04
Model F test:      Equal FMI      F(   9, 151.0)   =     14.47
Within VCE type:   OLS            Prob > F         =    0.0000

```

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-68.73342	70.0454	-0.98	0.328	-207.1288	69.66192
Race						
AfrAm	-343.9779	201.1103	-1.71	0.089	-741.3307	53.37476
Race#c.LnNFLw1						
AfrAm	130.601	101.6276	1.29	0.201	-70.19421	331.3963
Sex	7.732182	65.36653	0.12	0.906	-121.4187	136.883
w1Age	-6.750437	3.199107	-2.11	0.036	-13.07122	-.4296572
Race	0 (omitted)					
PovStat	-154.5487	56.86605	-2.72	0.007	-266.9044	-42.1931
TIME_V1SCAN	.030505	.0404101	0.75	0.451	-.0493372	.1103471
w1BMI	4.099695	3.728568	1.10	0.273	-3.267191	11.46658
ICV_volM2	.0016349	.000241	6.78	0.000	.0011588	.0021111
_cons	1866.425	349.8105	5.34	0.000	1175.271	2557.579

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =    0.0000
                                   Largest FMI         =    0.0000
                                   Complete DF         =     153
DF adjustment:  Small sample      DF:      min      =    151.04
                                   avg                  =    151.04
                                   max                  =    151.04
Model F test:      Equal FMI      F(   9, 151.0)   =     17.67
Within VCE type:   OLS            Prob > F         =    0.0000

```

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-57.60923	71.70715	-0.80	0.423	-199.2879	84.06939
Race						
AfrAm	-351.6203	205.8814	-1.71	0.090	-758.3998	55.15916
Race#c.LnNFLw1						
AfrAm	131.9743	104.0386	1.27	0.207	-73.58459	337.5332
Sex	-96.11667	66.91728	-1.44	0.153	-228.3315	36.09815
w1Age	-5.261155	3.275003	-1.61	0.110	-11.73189	1.209578
Race	0	(omitted)				
PovStat	-143.8443	58.21513	-2.47	0.015	-258.8654	-28.8231
TIME_V1SCAN	.0702371	.0413688	1.70	0.092	-.0114992	.1519734
w1BMI	4.542201	3.817024	1.19	0.236	-2.999456	12.08386
ICV_volM2	.002138	.0002467	8.67	0.000	.0016506	.0026255
_cons	1430.48	358.1094	3.99	0.000	722.9293	2138.031

79 .

80 . //ANALYSIS C//

81 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_fin

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	153
DF adjustment: Small sample	DF: min	=	151.04
	avg	=	151.04
	max	=	151.04
Model F test: Equal FMI	F(9, 151.0)	=	2.70
Within VCE type: OLS	Prob > F	=	0.0061

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.942815	.9103623	3.23	0.002	1.144126	4.741505
Race						
AfrAm	2.016693	2.61378	0.77	0.442	-3.1476	7.180985
Race#c.LnNFLw1						
AfrAm	-.1995138	1.320828	-0.15	0.880	-2.809199	2.410171
Sex	.4055111	.8495522	0.48	0.634	-1.27303	2.084052
w1Age	-.0029972	.041578	-0.07	0.943	-.0851468	.0791524
Race	0	(omitted)				
PovStat	1.258428	.7390736	1.70	0.091	-.20183	2.718686
TIME_V1SCAN	-.0009928	.0005252	-1.89	0.061	-.0020305	.0000449
w1BMI	.071419	.0484593	1.47	0.143	-.0243266	.1671645
ICV_volM2	2.29e-06	3.13e-06	0.73	0.465	-3.89e-06	8.48e-06
_cons	-6.252933	4.546399	-1.38	0.171	-15.23568	2.729819


```

82 .
83 . save, replace
    file finaldata_imputed_final.dta saved

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

93 .
94 .
95 .
96 . //ANALYSIS B//
97 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs     =         67
                                   Average RVI         =        0.0164
                                   Largest FMI         =        0.1253
                                   Complete DF        =          57
DF adjustment:  Small sample      DF:      min      =        41.97
                                   avg              =        53.12
                                   max              =        55.09
Model F test:      Equal FMI      F(   9,   55.0)  =        6.00
Within VCE type:   OLS            Prob > F        =        0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	27.57398	100.9642	0.27	0.786	-174.7721	229.9201
Sex	89.7543	88.69411	1.01	0.316	-88.04906	267.5577
w1Age	-7.858919	4.943509	-1.59	0.118	-17.76709	2.049252
Race	0 (omitted)					
PovStat	-219.2906	77.69705	-2.82	0.007	-374.9931	-63.58816
TIME_V1SCAN	.0253018	.0596667	0.42	0.673	-.0942781	.1448818
w1BMI	-2.028054	5.647142	-0.36	0.721	-13.34489	9.288785
w1dxDiabetes	-71.87158	62.14995	-1.16	0.254	-197.2977	53.55455
w1Glucose	4.414071	1.713515	2.58	0.013	.9748508	7.853291
ICV_volM2	.0010397	.000379	2.74	0.008	.0002798	.0017996
_cons	2168.669	508.8516	4.26	0.000	1148.9	3188.439

```

98 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs     =         67
                                   Average RVI         =        0.0026
                                   Largest FMI         =        0.0204
                                   Complete DF        =          57
DF adjustment:  Small sample      DF:      min      =        53.83
                                   avg              =        54.86
                                   max              =        55.09
Model F test:      Equal FMI      F(   9,   55.1)  =        8.25
Within VCE type:   OLS            Prob > F        =        0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	54.60756	93.74221	0.58	0.563	-133.2546	242.4697
Sex	4.277919	82.03501	0.05	0.959	-160.1292	168.6851
w1Age	-8.176434	4.584903	-1.78	0.080	-17.36485	1.011978
Race	0 (omitted)					
PovStat	-230.5519	72.22949	-3.19	0.002	-375.2975	-85.80626
TIME_V1SCAN	.0640296	.0553883	1.16	0.253	-.0469683	.1750275
w1BMI	-4.51549	5.249891	-0.86	0.393	-15.03628	6.005299
w1dxDiabetes	-36.65939	54.83794	-0.67	0.507	-146.6109	73.29211
w1Glucose	5.584811	1.563191	3.57	0.001	2.451745	8.717876
ICV_volM2	.0013837	.0003499	3.95	0.000	.0006824	.0020849
_cons	1953.098	472.6847	4.13	0.000	1005.844	2900.353

99 .

100 . //ANALYSIS C//

101 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0022
	Largest FMI	=	0.0211
	Complete DF	=	57
DF adjustment: Small sample	DF: min	=	53.77
	avg	=	54.89
	max	=	55.10
Model F test: Equal FMI	F(9, 55.1)	=	1.75
Within VCE type: OLS	Prob > F	=	0.0988

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.89967	1.284212	2.26	0.028	.3260503	5.473289
Sex	.5167441	1.122068	0.46	0.647	-1.731851	2.765339
w1Age	-.0172117	.0628062	-0.27	0.785	-.1430796	.1086561
Race	0 (omitted)					
PovStat	-.0608365	.9893367	-0.06	0.951	-2.043434	1.921761
TIME_V1SCAN	-.0008425	.0007586	-1.11	0.272	-.0023628	.0006778
w1BMI	.1157294	.0718939	1.61	0.113	-.0283447	.2598035
w1dxDiabetes	-.0066401	.7513362	-0.01	0.993	-1.513124	1.499844
w1Glucose	-.0040859	.0214158	-0.19	0.849	-.0470096	.0388378
ICV_volM2	5.77e-06	4.79e-06	1.21	0.233	-3.82e-06	.0000154
_cons	-7.910819	6.47296	-1.22	0.227	-20.88241	5.060769

102 .

103 . save, replace

file finaldata_imputed_final.dta saved

104 .

105 .

```

106 .
107 . //Whites//
108 .
109 . use finaldata_imputed_final,clear

110 .
111 .
112 . //ANALYSIS B//
113 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     96
                                   Average RVI        =     0.0000
                                   Largest FMI        =     0.0000
                                   Complete DF       =     86
DF adjustment:  Small sample      DF:      min      =     84.07
                                   avg              =     84.07
                                   max              =     84.07
Model F test:      Equal FMI      F(   9,   84.1)  =     7.75
Within VCE type:   OLS            Prob > F        =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-123.8929	92.36556	-1.34	0.183	-307.5698	59.78402
Sex	-77.02312	94.23851	-0.82	0.416	-264.4245	110.3783
w1Age	-2.491293	4.800416	-0.52	0.605	-12.03733	7.054749
Race	0 (omitted)					
PovStat	-104.7637	82.39317	-1.27	0.207	-268.6096	59.08227
TIME_V1SCAN	.0558711	.0570041	0.98	0.330	-.0574865	.1692286
w1BMI	7.692351	5.425955	1.42	0.160	-3.09763	18.48233
w1dxDiabetes	43.92692	71.05203	0.62	0.538	-97.36619	185.22
w1Glucose	.0784974	1.551457	0.05	0.960	-3.006708	3.163703
ICV_volM2	.0019313	.0003239	5.96	0.000	.0012871	.0025755
_cons	1244.756	528.6952	2.35	0.021	193.3998	2296.112

```

114 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     96
                                   Average RVI        =     0.0000
                                   Largest FMI        =     0.0000
                                   Complete DF       =     86
DF adjustment:  Small sample      DF:      min      =     84.07
                                   avg              =     84.07
                                   max              =     84.07
Model F test:      Equal FMI      F(   9,   84.1)  =    10.61
Within VCE type:   OLS            Prob > F        =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-137.7472	92.86167	-1.48	0.142	-322.4107	46.91621
Sex	-211.5965	94.74468	-2.23	0.028	-400.0045	-23.18855
w1Age	1.285309	4.8262	0.27	0.791	-8.312006	10.88262
Race	0 (omitted)					
PovStat	-72.97775	82.83571	-0.88	0.381	-237.7037	91.74822
TIME_V1SCAN	.1065101	.0573102	1.86	0.067	-.0074562	.2204765
w1BMI	10.83657	5.455099	1.99	0.050	-.0113665	21.6845
w1dxDiabetes	20.10493	71.43367	0.28	0.779	-121.9471	162.1569
w1Glucose	.613148	1.55979	0.39	0.695	-2.488629	3.714925
ICV_volM2	.0025772	.0003257	7.91	0.000	.0019295	.0032249
_cons	425.8567	531.5349	0.80	0.425	-631.1464	1482.86

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	84.07
	avg	=	84.07
	max	=	84.07
Model F test: Equal FMI	F(9, 84.1)	=	1.73
Within VCE type: OLS	Prob > F	=	0.0938

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.87942	1.244273	3.12	0.002	1.405076	6.353763
Sex	.2517441	1.269504	0.20	0.843	-2.272773	2.776262
w1Age	-.0269683	.0646673	-0.42	0.678	-.1555648	.1016281
Race	0 (omitted)					
PovStat	2.428172	1.109933	2.19	0.031	.2209747	4.635369
TIME_V1SCAN	-.0012321	.0007679	-1.60	0.112	-.0027591	.000295
w1BMI	.0675411	.073094	0.92	0.358	-.0778127	.2128948
w1dxDiabetes	-.2572773	.9571545	-0.27	0.789	-2.160662	1.646107
w1Glucose	-.015323	.0208999	-0.73	0.466	-.0568843	.0262384
ICV_volM2	1.70e-06	4.36e-06	0.39	0.697	-6.98e-06	.0000104
_cons	-5.222371	7.122147	-0.73	0.465	-19.38538	8.940632

```

118 .
119 . save, replace
    file finaldata_imputed_final.dta saved

```

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0049
	Largest FMI	=	0.0527
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	129.71
	avg	=	146.89
	max	=	149.03
Model F test: Equal FMI	F(11, 149.0)	=	12.07
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-110.1863	75.05246	-1.47	0.144	-258.4913	38.11869
Race						
AfrAm	-429.5323	207.4129	-2.07	0.040	-839.3823	-19.68219
Race#c.LnNFLw1						
AfrAm	176.9895	105.2934	1.68	0.095	-31.07138	385.0503
Sex	-8.617715	66.02812	-0.13	0.896	-139.0899	121.8545
w1Age	-6.560636	3.265468	-2.01	0.046	-13.01336	-.1079129
Race	0	(omitted)				
PovStat	-163.1121	57.01902	-2.86	0.005	-275.7823	-50.44194
TIME_V1SCAN	.0397647	.0409715	0.97	0.333	-.0411958	.1207252
w1BMI	2.765434	3.812394	0.73	0.469	-4.767899	10.29877
w1dxDiabetes	7.322901	47.33238	0.15	0.877	-86.32051	100.9663
w1Glucose	1.318741	1.146854	1.15	0.252	-.9481399	3.585622
ICV_volM2	.0016472	.0002407	6.84	0.000	.0011715	.0021229
_cons	1843.712	359.8379	5.12	0.000	1132.651	2554.772

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0004
	Largest FMI	=	0.0049
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	148.23
	avg	=	148.93
	max	=	149.04
Model F test: Equal FMI	F(11, 149.0)	=	15.31
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-117.0335	76.08086	-1.54	0.126	-267.37	33.3031
Race						
AfrAm	-478.3406	210.2951	-2.27	0.024	-893.8856	-62.79561
Race#c.LnNFLw1						
AfrAm	200.25	106.7596	1.88	0.063	-10.70798	411.2079
Sex	-120.716	66.94753	-1.80	0.073	-253.0049	11.57301
w1Age	-5.101126	3.307698	-1.54	0.125	-11.63718	1.434928
Race	0	(omitted)				
PovStat	-156.8257	57.81109	-2.71	0.007	-271.0609	-42.59045
TIME_V1SCAN	.0847632	.0415279	2.04	0.043	.0027037	.1668227
w1BMI	2.540065	3.865264	0.66	0.512	-5.097733	10.17786
w1dxDiabetes	19.6694	46.86877	0.42	0.675	-72.94784	112.2866
w1Glucose	1.794413	1.151876	1.56	0.121	-.4817437	4.07057
ICV_volM2	.0021553	.0002441	8.83	0.000	.0016729	.0026376
_cons	1412.663	364.4111	3.88	0.000	692.5809	2132.744

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0003
                                   Largest FMI         =     0.0029
                                   Complete DF        =     151
DF adjustment:  Small sample      DF:      min     =    148.60
                                   avg              =    148.98
                                   max              =    149.04
Model F test:      Equal FMI      F( 11, 149.0) =     2.34
Within VCE type:   OLS            Prob > F      =     0.0109

```

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.328633	.9787989	3.40	0.001	1.394518	5.262749
Race						
AfrAm	2.867036	2.705561	1.06	0.291	-2.479178	8.213249
Race#c.LnNFLw1						
AfrAm	-.6550551	1.373523	-0.48	0.634	-3.36915	2.05904
Sex	.5720412	.8613361	0.66	0.508	-1.129968	2.27405
w1Age	-.0033038	.0425512	-0.08	0.938	-.0873854	.0807777
Race	0 (omitted)					
PovStat	1.34744	.7437707	1.81	0.072	-.1222578	2.817137
TIME_V1SCAN	-.0010952	.0005343	-2.05	0.042	-.0021509	-.0000394
w1BMI	.0849648	.0497301	1.71	0.090	-.0133024	.183232
w1dxDiabetes	-.1862715	.6024231	-0.31	0.758	-1.376694	1.004151
w1Glucose	-.0110455	.0148125	-0.75	0.457	-.0403153	.0182244
ICV_volM2	2.19e-06	3.14e-06	0.70	0.487	-4.02e-06	8.39e-06
_cons	-6.232661	4.687831	-1.33	0.186	-15.49587	3.030545

```

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

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

141 .
142 .
143 .

```

144 . //ANALYSIS B//

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	67
		Average RVI	=	0.1519
		Largest FMI	=	0.6805
		Complete DF	=	54
DF adjustment: Small sample		DF: min	=	6.94
		avg	=	43.83
		max	=	51.31
Model F test: Equal FMI		F(11, 49.8)	=	3.27
Within VCE type: OLS		Prob > F	=	0.0020

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	31.31216	108.9617	0.29	0.775	-187.977	250.6013
Sex	88.75671	139.1344	0.64	0.529	-196.4954	374.0088
w1Age	-9.364348	5.722181	-1.64	0.108	-20.85044	2.121748
Race	0 (omitted)					
PovStat	-211.0051	85.65077	-2.46	0.017	-383.0037	-39.00648
TIME_V1SCAN	.0311153	.0673775	0.46	0.646	-.1045944	.166825
w1BMI	.3359013	6.752444	0.05	0.961	-13.22146	13.89327
w1Creatinine	75.86168	255.0798	0.30	0.775	-528.3132	680.0366
w1USpecGrav	-4044.527	5416.196	-0.75	0.459	-14921.7	6832.649
w1BUN	2.856216	12.36908	0.23	0.818	-22.02851	27.74094
w1ALP	-.2069154	1.894391	-0.11	0.913	-4.018774	3.604943
w1UricAcid	-12.79206	30.35379	-0.42	0.675	-73.73019	48.14608
ICV_volM2	.001195	.0004309	2.77	0.008	.0003276	.0020623
_cons	6441.024	5495.116	1.17	0.247	-4591.112	17473.16

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	67
		Average RVI	=	0.0691
		Largest FMI	=	0.4626
		Complete DF	=	54
DF adjustment: Small sample		DF: min	=	13.43
		avg	=	46.95
		max	=	51.92
Model F test: Equal FMI		F(11, 51.4)	=	3.95
Within VCE type: OLS		Prob > F	=	0.0004

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	22.5495	106.2862	0.21	0.833	-191.0599	236.1589
Sex	-13.83137	128.3357	-0.11	0.915	-272.9352	245.2725
w1Age	-9.417839	5.621484	-1.68	0.100	-20.69856	1.862885
Race	0 (omitted)					
PovStat	-226.2517	83.78526	-2.70	0.009	-394.399	-58.10436
TIME_V1SCAN	.0759641	.0652912	1.16	0.250	-.0552487	.2071769
w1BMI	-5.512912	6.623236	-0.83	0.409	-18.80538	7.779555
w1Creatinine	77.0417	203.6084	0.38	0.711	-361.392	515.4754
w1USpecGrav	495.1447	5334.673	0.09	0.926	-10216.26	11206.55
w1BUN	12.61985	12.0222	1.05	0.299	-11.52783	36.76753
w1ALP	-.8189551	1.843442	-0.44	0.659	-4.522531	2.88462
w1UricAcid	-8.057853	29.862	-0.27	0.788	-67.99459	51.87889
ICV_volM2	.0015899	.0004174	3.81	0.000	.0007513	.0024285
_cons	1726.251	5420.034	0.32	0.751	-9154.361	12606.86

```

147 .
148 . //ANALYSIS C//
149 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
> 2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0174
	Largest FMI	=	0.0609
	Complete DF	=	54
DF adjustment: Small sample	DF: min	=	47.33
	avg	=	50.93
	max	=	51.83
Model F test: Equal FMI	F(11, 52.0)	=	1.77
Within VCE type: OLS	Prob > F	=	0.0844

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.761894	1.257469	2.20	0.033	.2368788	5.286909
Sex	.0500653	1.454933	0.03	0.973	-2.86981	2.96994
w1Age	-.013687	.0673831	-0.20	0.840	-.1489327	.1215587
Race	0 (omitted)					
PovStat	.1641041	1.00657	0.16	0.871	-1.8567	2.184908
TIME_V1SCAN	-.0010469	.0007762	-1.35	0.183	-.002606	.0005122
w1BMI	.1160117	.0796852	1.46	0.152	-.0439907	.276014
w1Creatinine	1.817668	1.921414	0.95	0.349	-2.047014	5.68235
w1USpecGrav	-92.65687	63.32568	-1.46	0.149	-219.7528	34.43912
w1BUN	.0930521	.1418008	0.66	0.515	-.1915148	.3776191
w1ALP	-.0160679	.0217053	-0.74	0.462	-.0596284	.0274926
w1UricAcid	-.3029564	.356058	-0.85	0.399	-1.017532	.4116192
ICV_volM2	6.94e-06	4.94e-06	1.40	0.166	-2.98e-06	.0000169
_cons	85.55495	64.51275	1.33	0.191	-43.92282	215.0327

```

150 .
151 . save, replace
    file finaldata_imputed_final.dta saved

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

158 .
159 .
160 .
161 . //ANALYSIS B//
162 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
> =1

```



```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     96
                                   Average RVI         =    0.0246
                                   Largest FMI          =    0.1582
                                   Complete DF          =     83
DF adjustment:   Small sample     DF:      min      =    50.59
                                   avg          =    74.96
                                   max          =    80.68
Model F test:      Equal FMI      F( 11, 80.8)    =     6.35
Within VCE type:   OLS           Prob > F        =    0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-115.2075	86.79175	-1.33	0.188	-287.9075	57.49254
Sex	-61.66019	115.6685	-0.53	0.595	-291.8438	168.5234
w1Age	-1.91687	4.889486	-0.39	0.696	-11.64599	7.812251
Race	0 (omitted)					
PovStat	-84.25708	83.48796	-1.01	0.316	-250.3899	81.87571
TIME_V1SCAN	.0500404	.0576882	0.87	0.388	-.0647566	.1648374
w1BMI	8.75071	5.912594	1.48	0.143	-3.014739	20.51616
w1Creatinine	-151.9538	219.3072	-0.69	0.492	-592.3179	288.4102
w1USpecGrav	-4253.308	7204.487	-0.59	0.557	-18650.02	10143.41
w1BUN	13.53303	9.916906	1.36	0.177	-6.226934	33.29299
w1ALP	-1.74819	1.600526	-1.09	0.278	-4.93299	1.43661
w1UricAcid	-.1189352	29.60479	-0.00	0.997	-59.03607	58.7982
ICV_volM2	.0020432	.0003375	6.05	0.000	.0013716	.0027148
_cons	5406.102	7165.996	0.75	0.453	-8911.985	19724.19

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     96
                                   Average RVI         =    0.0141
                                   Largest FMI          =    0.0992
                                   Complete DF          =     83
DF adjustment:   Small sample     DF:      min      =    63.47
                                   avg          =    77.00
                                   max          =    80.99
Model F test:      Equal FMI      F( 11, 81.0)    =     8.58
Within VCE type:   OLS           Prob > F        =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-128.7651	87.44133	-1.47	0.145	-302.7462	45.2159
Sex	-172.8187	116.5285	-1.48	0.142	-404.6953	59.0578
w1Age	1.188878	4.928726	0.24	0.810	-8.617853	10.99561
Race	0 (omitted)					
PovStat	-51.42835	84.29024	-0.61	0.543	-219.1587	116.302
TIME_V1SCAN	.098482	.0581	1.70	0.094	-.0171244	.2140884
w1BMI	12.93121	5.961185	2.17	0.033	1.069606	24.79281
w1Creatinine	-85.35259	211.4704	-0.40	0.688	-507.0608	336.3556
w1USpecGrav	-5287.928	7266.107	-0.73	0.469	-19805.97	9230.113
w1BUN	14.38847	9.936938	1.45	0.152	-5.399843	34.17679
w1ALP	-.5440909	1.612437	-0.34	0.737	-3.752373	2.664191
w1UricAcid	-14.14524	29.75184	-0.48	0.636	-73.34443	45.05394
ICV_volM2	.0026285	.0003403	7.72	0.000	.0019513	.0033058
_cons	5654.709	7228.582	0.78	0.437	-8787.002	20096.42

```

164 .
165 . //ANALYSIS C//
166 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
> 1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     96
                                   Average RVI         =    0.0051
                                   Largest FMI         =    0.0463
                                   Complete DF         =     83
DF adjustment:  Small sample      DF:      min      =    74.72
                                   avg                  =    80.13
                                   max                  =    81.06
Model F test:      Equal FMI      F( 11, 81.0)    =     1.62
Within VCE type:   OLS           Prob > F       =    0.1093

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.332854	1.166845	2.86	0.005	1.011222	5.654485
Sex	-.9915705	1.552591	-0.64	0.525	-4.080811	2.09767
w1Age	-.03091	.0657649	-0.47	0.640	-.1617609	.0999409
Race	0 (omitted)					
PovStat	1.855333	1.121758	1.65	0.102	-.3766175	4.087284
TIME_V1SCAN	-.0011752	.0007755	-1.52	0.134	-.0027183	.0003678
w1BMI	-.017829	.0794107	-0.22	0.823	-.1758296	.1401715
w1Creatinine	-.1321446	2.794296	-0.05	0.962	-5.699013	5.434724
w1USpecGrav	147.9057	93.23416	1.59	0.117	-37.66983	333.4811
w1BUN	-.0090264	.1310413	-0.07	0.945	-.2697975	.2517446
w1ALP	-.0054664	.0215098	-0.25	0.800	-.0482639	.0373311
w1UricAcid	.3766383	.3969915	0.95	0.346	-.4132685	1.166545
ICV_volM2	1.97e-06	4.53e-06	0.43	0.665	-7.05e-06	.000011
_cons	-153.1878	92.84882	-1.65	0.103	-337.9999	31.62429

```

167 .
168 . save, replace
    file finaldata_imputed_final.dta saved
169 .
170 . **INTERACTION by Race**
171 .
172 .
173 . //ANALYSIS B//
174 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGra

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =    163
                                   Average RVI         =    0.0472
                                   Largest FMI         =    0.4175
                                   Complete DF         =    148
DF adjustment:  Small sample      DF:      min      =    21.72
                                   avg                  =   131.77
                                   max                  =   145.86
Model F test:      Equal FMI      F( 13, 144.7)    =     9.50
Within VCE type:   OLS           Prob > F       =    0.0000

```

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-78.13312	72.88165	-1.07	0.285	-222.1907	65.92443
Race						
AfrAm	-327.7662	210.8175	-1.55	0.122	-744.5455	89.01303
Race#c.LnNFLw1						
AfrAm	132.0209	105.1994	1.25	0.212	-75.92422	339.966
Sex	9.440869	84.52827	0.11	0.911	-157.9098	176.7916
w1Age	-6.979155	3.400895	-2.05	0.042	-13.70066	-.2576517
Race	0	(omitted)				
PovStat	-148.1104	58.1629	-2.55	0.012	-263.0627	-33.15806
TIME_V1SCAN	.0270208	.0412054	0.66	0.513	-.0544173	.1084588
w1BMI	4.183868	4.237365	0.99	0.325	-4.190799	12.55854
w1Creatinine	-14.83592	153.8345	-0.10	0.924	-334.1038	304.432
w1USpecGrav	-2690.205	4331.346	-0.62	0.536	-11259.02	5878.61
w1BUN	8.330645	7.458977	1.12	0.266	-6.429811	23.0911
w1ALP	-.8702712	1.172184	-0.74	0.459	-3.186949	1.446407
w1UricAcid	-7.802457	20.88108	-0.37	0.709	-49.07221	33.4673
ICV_volM2	.0016621	.0002505	6.64	0.000	.001167	.0021571
_cons	4594.718	4346.649	1.06	0.292	-4004.54	13193.97

175 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
> 1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0143
	Largest FMI	=	0.1450
	Complete DF	=	148
DF adjustment: Small sample	DF: min	=	79.92
	avg	=	139.60
	max	=	145.99
Model F test: Equal FMI	F(13, 145.9)	=	12.04
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-77.55402	74.26887	-1.04	0.298	-224.3382	69.23019
Race						
AfrAm	-344.0239	214.0884	-1.61	0.110	-767.1621	79.1143
Race#c.LnNFLw1						
AfrAm	140.221	107.1399	1.31	0.193	-71.5322	351.9741
Sex	-86.65018	84.408	-1.03	0.306	-253.504	80.20367
w1Age	-5.505767	3.475724	-1.58	0.115	-12.375	1.363469
Race	0	(omitted)				
PovStat	-139.7752	59.48671	-2.35	0.020	-257.3427	-22.20761
TIME_V1SCAN	.0648142	.0421259	1.54	0.126	-.0184416	.14807
w1BMI	4.487506	4.331923	1.04	0.302	-4.073894	13.04891
w1Creatinine	13.98497	133.8706	0.10	0.917	-252.43	280.3999
w1USpecGrav	-674.1969	4407.885	-0.15	0.879	-9391.375	8042.981
w1BUN	10.47654	7.478566	1.40	0.163	-4.30594	25.25903
w1ALP	-.2996477	1.198927	-0.25	0.803	-2.669161	2.069866
w1UricAcid	-15.68806	21.34347	-0.74	0.464	-57.87073	26.49462
ICV_volM2	.0021416	.0002563	8.36	0.000	.0016351	.0026481
_cons	2101.2	4421.181	0.48	0.635	-6642.153	10844.55

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0021
	Largest FMI	=	0.0209
	Complete DF	=	148
DF adjustment: Small sample	DF: min	=	141.02
	avg	=	145.52
	max	=	145.99
Model F test: Equal FMI	F(13, 146.0)	=	1.93
Within VCE type: OLS	Prob > F	=	0.0311

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.846291	.9455554	3.01	0.003	.9775454	4.715037
Race						
AfrAm	1.958821	2.721048	0.72	0.473	-3.418916	7.336558
Race#c.LnNFLw1						
AfrAm	-.1204022	1.363091	-0.09	0.930	-2.814342	2.573538
Sex	-.0787653	1.06863	-0.07	0.941	-2.190788	2.033257
w1Age	-.0077999	.0443152	-0.18	0.861	-.0953825	.0797827
Race	0 (omitted)					
PovStat	1.213717	.7577952	1.60	0.111	-.2839487	2.711383
TIME_V1SCAN	-.0010234	.0005371	-1.91	0.059	-.0020849	.0000381
w1BMI	.047329	.0552184	0.86	0.393	-.061802	.1564599
w1Creatinine	.4983881	1.602625	0.31	0.756	-2.669887	3.666663
w1USpecGrav	29.81575	55.31305	0.54	0.591	-79.50542	139.1369
w1BUN	.0488246	.0948005	0.52	0.607	-.1385362	.2361855
w1ALP	-.0077929	.0152805	-0.51	0.611	-.0379927	.0224069
w1UricAcid	.0993798	.2718459	0.37	0.715	-.4378821	.6366417
ICV_volM2	2.72e-06	3.27e-06	0.83	0.407	-3.74e-06	9.17e-06
_cons	-36.37592	55.4956	-0.66	0.513	-146.058	73.30615

```

179 .
180 . save, replace
    file finaldata_imputed_final.dta saved

```

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0478
	Largest FMI	=	0.4003
	Complete DF	=	149
	DF: min	=	23.29
	avg	=	132.51
DF adjustment: Small sample	max	=	146.95
	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-32.40472	63.09187	-0.51	0.608	-157.0957	92.28622
Sex	16.56706	84.2657	0.20	0.844	-150.2148	183.3489
w1Age	-6.921567	3.409534	-2.03	0.044	-13.65985	-.1832824
Race	-74.48022	58.24245	-1.28	0.203	-189.6032	40.64276
PovStat	-150.299	58.27167	-2.58	0.011	-265.4604	-35.13749
TIME_V1SCAN	.0237475	.0412189	0.58	0.565	-.0577132	.1052081
w1BMI	3.707083	4.232274	0.88	0.383	-4.657177	12.07134
w1Creatinine	-29.64916	151.471	-0.20	0.847	-342.7714	283.4731
w1USpecGrav	-3246.446	4317.722	-0.75	0.453	-11787.98	5295.091
w1BUN	8.693811	7.445537	1.17	0.245	-6.035887	23.42351
w1ALP	-.7784001	1.17191	-0.66	0.508	-3.094395	1.537595
w1UricAcid	-5.152986	20.8226	-0.25	0.805	-46.30508	35.99911
ICV_volM2	.0016125	.0002478	6.51	0.000	.0011228	.0021022
_cons	5203.48	4330.085	1.20	0.232	-3362.542	13769.5

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0140
	Largest FMI	=	0.1291
	Complete DF	=	149
	DF: min	=	87.64
	avg	=	140.65
	max	=	146.95
DF adjustment: Small sample	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-28.97278	64.46471	-0.45	0.654	-156.3718	98.42628
Sex	-79.09067	84.28693	-0.94	0.350	-245.6875	87.50621
w1Age	-5.445201	3.4844	-1.56	0.120	-12.33121	1.440812
Race	-75.02136	59.26204	-1.27	0.208	-192.14	42.0973
PovStat	-142.1054	59.61801	-2.38	0.018	-259.9263	-24.2845
TIME_V1SCAN	.0613439	.0421461	1.46	0.148	-.0219472	.1446349
w1BMI	3.982628	4.325233	0.92	0.359	-4.565067	12.53032
w1Creatinine	-1.678794	132.3599	-0.01	0.990	-264.7313	261.3737
w1USpecGrav	-1265.032	4399.772	-0.29	0.774	-9966.28	7436.215
w1BUN	10.85956	7.4797	1.45	0.149	-3.92368	25.6428
w1ALP	-.2016149	1.199127	-0.17	0.867	-2.571378	2.168148
w1UricAcid	-12.8714	21.29289	-0.60	0.546	-54.95199	29.20919
ICV_volM2	.0020889	.0002537	8.23	0.000	.0015875	.0025902
_cons	2743.68	4410.826	0.62	0.535	-5979.269	11466.63

186 .
187 . //ANALYSIS C//

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0022
                                   Largest FMI         =     0.0204
                                   Complete DF         =     149
                                   DF:      min         =    142.13
                                   avg          =    146.49
                                   max          =    146.99
DF adjustment:  Small sample
                                   F( 12,      .)      =      .
Within VCE type:      OLS          Prob > F        =      .

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.804553	.8164754	3.43	0.001	1.191002	4.418104
Sex	-.0851462	1.062453	-0.08	0.936	-2.18484	2.014548
w1Age	-.0078514	.0441634	-0.18	0.859	-.095129	.0794262
Race	1.727926	.7500707	2.30	0.023	.2456086	3.210244
PovStat	1.215721	.754926	1.61	0.109	-.2761897	2.707632
TIME_V1SCAN	-.0010204	.0005342	-1.91	0.058	-.0020762	.0000354
w1BMI	.0477581	.0548161	0.87	0.385	-.0605717	.1560878
w1Creatinine	.5110439	1.588149	0.32	0.748	-2.628403	3.650491
w1USpecGrav	30.32698	54.82682	0.55	0.581	-78.027	138.681
w1BUN	.0485099	.0944029	0.51	0.608	-.1380545	.2350744
w1ALP	-.0078791	.0151996	-0.52	0.605	-.0379173	.0221591
w1UricAcid	.0969624	.2695579	0.36	0.720	-.4357474	.6296722
ICV_volM2	2.76e-06	3.21e-06	0.86	0.392	-3.59e-06	9.11e-06
_cons	-38.59463	54.98325	-0.70	0.484	-147.2579	70.0686

189 .

190 . save, replace
file finaldata_imputed_final.dta saved

191 .

192 . *****MODEL 5: MODEL2+OXIDATIVE STRESS*****

193 .

194 .

195 . //AFRICAN-AMERICAN//

196 .

197 . use finaldata_imputed_final,clear

198 .

199 .

200 . //ANALYSIS B//

201 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     67
                                   Average RVI        =     0.0776
                                   Largest FMI         =     0.4804
                                   Complete DF         =     56
                                   DF:      min         =    12.90
                                   avg          =    49.78
                                   max          =    54.07
DF adjustment:  Small sample
                                   F( 10,    53.3)      =     4.65
Model F test:      Equal FMI
Within VCE type:      OLS          Prob > F        =     0.0001

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	36.30603	99.74988	0.36	0.717	-163.6875	236.2996
Sex	73.55961	91.77815	0.80	0.426	-110.4665	257.5857
w1Age	-7.960351	4.890602	-1.63	0.110	-17.77264	1.851938
Race	0 (omitted)					
PovStat	-227.3851	81.00615	-2.81	0.007	-389.8727	-64.89755
TIME_V1SCAN	.0478154	.0631374	0.76	0.452	-.0788249	.1744556
w1BMI	1.405133	5.98963	0.23	0.815	-10.6056	13.41586
w1TotalD	-3.26744	6.598714	-0.50	0.629	-17.53409	10.99921
w1Albumin	236.8032	118.5245	2.00	0.051	-.8174974	474.4238
w1EosinPct	.9793661	17.98365	0.05	0.957	-35.08199	37.04072
ICV_volM2	.001196	.0003796	3.15	0.003	.0004348	.0019571
_cons	1265.636	775.2004	1.63	0.108	-288.6195	2819.891

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0693
	Largest FMI	=	0.4030
	Complete DF	=	56
DF adjustment: Small sample	DF: min	=	16.48
	avg	=	49.20
	max	=	53.68
Model F test: Equal FMI	F(10, 53.4)	=	5.01
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	37.86082	99.81636	0.38	0.706	-162.3827	238.1043
Sex	1.2276	91.8891	0.01	0.989	-183.1436	185.5988
w1Age	-6.790289	4.920786	-1.38	0.174	-16.67706	3.096482
Race	0 (omitted)					
PovStat	-238.046	80.4381	-2.96	0.005	-399.4132	-76.67876
TIME_V1SCAN	.0673943	.0628448	1.07	0.288	-.0586977	.1934864
w1BMI	-1.792092	5.999167	-0.30	0.766	-13.83065	10.24646
w1TotalD	-6.594437	6.184456	-1.07	0.302	-19.6737	6.484824
w1Albumin	198.2644	117.924	1.68	0.099	-38.19618	434.725
w1EosinPct	-.0752789	17.85883	-0.00	0.997	-35.89008	35.73952
ICV_volM2	.00154	.0003786	4.07	0.000	.0007807	.0022993
_cons	1417.157	769.7638	1.84	0.071	-126.3383	2960.653

203 .

204 . //ANALYSIS C//

205 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct I

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0428
	Largest FMI	=	0.3170
	Complete DF	=	56
DF adjustment: Small sample	DF: min	=	21.88
	avg	=	50.90
	max	=	54.06
Model F test: Equal FMI	F(10, 53.8)	=	1.61
Within VCE type: OLS	Prob > F	=	0.1289

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.992127	1.239615	2.41	0.019	.5065155	5.477739
Sex	.520834	1.136686	0.46	0.649	-1.758174	2.799842
w1Age	-.0284392	.0599904	-0.47	0.637	-.1487154	.0918369
Race	0 (omitted)					
PovStat	.0314257	1.000608	0.03	0.975	-1.975121	2.037972
TIME_V1SCAN	-.0007856	.0007808	-1.01	0.319	-.0023515	.0007803
w1BMI	.1185421	.0739976	1.60	0.115	-.0298106	.2668948
w1TotalD	.0366782	.073305	0.50	0.622	-.1153952	.1887516
w1Albumin	-.681179	1.477045	-0.46	0.647	-3.643121	2.280762
w1EosinPct	.096941	.2223343	0.44	0.665	-.3488118	.5426938
ICV_volM2	5.55e-06	4.70e-06	1.18	0.243	-3.88e-06	.000015
_cons	-5.87532	9.606006	-0.61	0.543	-25.13412	13.38347

```

206 .
207 . save, replace
    file finaldata_imputed_final.dta saved

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

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

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     96
                                   Average RVI        =     0.0094
                                   Largest FMI         =     0.0547
                                   Complete DF        =     85
DF adjustment: Small sample       DF: min         =     74.81
                                   avg                 =     81.78
                                   max                 =     83.05
Model F test: Equal FMI           F( 10, 83.0)    =     6.90
Within VCE type: OLS              Prob > F         =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-108.5322	87.59078	-1.24	0.219	-282.7624	65.69791
Sex	-74.36698	95.78041	-0.78	0.440	-264.8737	116.1398
w1Age	-2.121924	4.760867	-0.45	0.657	-11.59101	7.347163
Race	0 (omitted)					
PovStat	-99.26752	81.94869	-1.21	0.229	-262.2596	63.72456
TIME_V1SCAN	.0592094	.0574544	1.03	0.306	-.0550662	.173485
w1BMI	10.37773	5.518464	1.88	0.064	-.5983849	21.35385
w1TotalD	1.423663	3.529573	0.40	0.688	-5.607903	8.455228
w1Albumin	117.2072	143.4163	0.82	0.416	-168.042	402.4563
w1EosinPct	-8.75352	17.37749	-0.50	0.616	-43.34637	25.83934
ICV_volM2	.0019343	.0003222	6.00	0.000	.0012934	.0025752
_cons	597.1638	849.3409	0.70	0.484	-1092.141	2286.468

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     96
                                   Average RVI       =    0.0062
                                   Largest FMI       =    0.0460
                                   Complete DF      =     85
DF adjustment:  Small sample      DF:      min    =    76.55
                                   avg              =    82.29
                                   max              =    83.07
Model F test:      Equal FMI      F( 10, 83.0) =    9.27
Within VCE type:   OLS           Prob > F      =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-100.5367	88.29022	-1.14	0.258	-276.1428	75.06941
Sex	-204.1276	96.70638	-2.11	0.038	-396.4709	-11.78438
w1Age	.9263571	4.81123	0.19	0.848	-8.642909	10.49562
Race	0 (omitted)					
PovStat	-62.66367	82.79079	-0.76	0.451	-227.3293	102.002
TIME_V1SCAN	.093876	.0580382	1.62	0.110	-.0215593	.2093114
w1BMI	12.31838	5.573649	2.21	0.030	1.232679	23.40407
w1TotalD	-.5644763	3.500397	-0.16	0.872	-7.528701	6.399749
w1Albumin	11.91062	144.9716	0.08	0.935	-276.4346	300.2558
w1EosinPct	6.134827	17.64951	0.35	0.729	-29.01312	41.28278
ICV_volM2	.0025871	.0003255	7.95	0.000	.0019396	.0032345
_cons	325.782	858.043	0.38	0.705	-1380.815	2032.379

220 .

221 . //ANALYSIS C//

222 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct I

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     96
                                   Average RVI       =    0.0053
                                   Largest FMI       =    0.0427
                                   Complete DF      =     85
DF adjustment:  Small sample      DF:      min    =    77.18
                                   avg              =    82.40
                                   max              =    83.03
Model F test:      Equal FMI      F( 10, 83.0) =    1.78
Within VCE type:   OLS           Prob > F      =    0.0777

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.814196	1.168	3.27	0.002	1.490938	6.137453
Sex	-.586569	1.278231	-0.46	0.648	-3.128975	1.955837
w1Age	-.0255853	.0635362	-0.40	0.688	-.1519557	.1007851
Race	0 (omitted)					
PovStat	2.157509	1.093518	1.97	0.052	-.01745	4.332468
TIME_V1SCAN	-.0009577	.0007666	-1.25	0.215	-.0024825	.000567
w1BMI	.0745778	.0736466	1.01	0.314	-.0719045	.2210602
w1TotalD	-.0363943	.0468167	-0.78	0.439	-.1296148	.0568262
w1Albumin	2.644161	1.915314	1.38	0.171	-1.165423	6.453746
w1EosinPct	.2122303	.2279734	0.93	0.355	-.2411977	.6656584
ICV_volM2	2.49e-06	4.30e-06	0.58	0.565	-6.06e-06	.000011
_cons	-18.28714	11.3402	-1.61	0.111	-40.84278	4.268492

```

223 .
224 . save, replace
      file finaldata_imputed_final.dta saved

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     163
                                   Average RVI         =     0.0202
                                   Largest FMI         =     0.1877
                                   Complete DF         =     150
DF adjustment:  Small sample      DF:      min      =     63.68
                                   avg                  =    140.58
                                   max                  =    148.03
Model F test:      Equal FMI      F( 12, 147.7) =     11.01
Within VCE type:   OLS           Prob > F      =     0.0000

```

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-62.35507	72.10955	-0.86	0.389	-204.8638	80.15368
Race						
AfrAm	-325.1355	202.6539	-1.60	0.111	-725.6123	75.34124
Race#c.LnNFLw1						
AfrAm	122.8714	101.5897	1.21	0.228	-77.88195	323.6247
Sex	-6.264278	66.76217	-0.09	0.925	-138.1953	125.6667
w1Age	-6.460062	3.198093	-2.02	0.045	-12.77988	-.1402465
Race	0 (omitted)					
PovStat	-161.0974	56.96206	-2.83	0.005	-273.6617	-48.533
TIME_V1SCAN	.0450444	.0414505	1.09	0.279	-.0368698	.1269587
w1BMI	5.853108	3.906757	1.50	0.136	-1.867148	13.57336
w1TotalD	.0486938	3.005004	0.02	0.987	-5.955073	6.052461
w1Albumin	172.0237	93.84433	1.83	0.069	-13.4247	357.4722
w1EosinPct	-6.582044	12.5078	-0.53	0.600	-31.31272	18.14863
ICV_volM2	.0016293	.0002413	6.75	0.000	.0011525	.0021061
_cons	1063.055	581.5429	1.83	0.070	-86.15287	2212.262

```

233 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     163
                                   Average RVI         =     0.0118
                                   Largest FMI         =     0.0879
                                   Complete DF         =     150
DF adjustment:  Small sample      DF:      min      =    109.70
                                   avg                  =    144.02
                                   max                  =    148.02
Model F test:      Equal FMI      F( 12, 147.9) =     13.16
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-37.99035	74.03085	-0.51	0.609	-184.2859	108.3052
Race						
AfrAm	-350.8357	208.673	-1.68	0.095	-763.2059	61.53451
Race#c.LnNFLw1						
AfrAm	123.2762	104.65	1.18	0.241	-83.52562	330.078
Sex	-111.7972	68.77744	-1.63	0.106	-247.7114	24.11706
w1Age	-5.111729	3.29733	-1.55	0.123	-11.62778	1.404323
Race	0	(omitted)				
PovStat	-149.955	58.70598	-2.55	0.012	-265.9671	-33.94287
TIME_V1SCAN	.073931	.0426363	1.73	0.085	-.0103244	.1581864
w1BMI	5.596536	4.022713	1.39	0.166	-2.352839	13.54591
w1TotalD	-2.478355	2.938736	-0.84	0.401	-8.30242	3.34571
w1Albumin	108.0911	96.62506	1.12	0.265	-82.85164	299.0339
w1EosinPct	2.005477	12.91759	0.16	0.877	-23.53952	27.55048
ICV_volM2	.0021505	.0002485	8.65	0.000	.0016594	.0026416
_cons	946.4097	598.6911	1.58	0.116	-236.6775	2129.497

234 .

235 . //ANALYSIS C//

236 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1Eo

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 163
Average RVI = 0.0124
Largest FMI = 0.1360
Complete DF = 150
DF: min = 84.74
avg = 142.95
max = 148.01
F(12, 147.9) = 2.22
Prob > F = 0.0133

DF adjustment: Small sample

Model F test: Equal FMI
Within VCE type: OLS

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.221716	.9407389	3.42	0.001	1.362535	5.080898
Race						
AfrAm	2.331373	2.640797	0.88	0.379	-2.887189	7.549935
Race#c.LnNFLw1						
AfrAm	-.2881495	1.325061	-0.22	0.828	-2.906635	2.330336
Sex	.1149757	.870463	0.13	0.895	-1.605168	1.83512
w1Age	-.0046348	.041714	-0.11	0.912	-.0870668	.0777971
Race	0	(omitted)				
PovStat	1.252518	.7427596	1.69	0.094	-.2152665	2.720303
TIME_V1SCAN	-.0009393	.0005403	-1.74	0.084	-.0020071	.0001285
w1BMI	.0906974	.0509455	1.78	0.077	-.0099773	.1913722
w1TotalD	-.010538	.0381417	-0.28	0.783	-.0863774	.0653014
w1Albumin	1.060189	1.224067	0.87	0.388	-1.358731	3.47911
w1EosinPct	.2201863	.1605874	1.37	0.172	-.097154	.5375265
ICV_volM2	2.66e-06	3.15e-06	0.85	0.398	-3.55e-06	8.88e-06
_cons	-12.50045	7.58252	-1.65	0.101	-27.48448	2.483575

```

237 .
238 . save, replace
      file finaldata_imputed_final.dta saved

239 .
240 .
241 .
242 . *****MODEL 6: MODEL 2+lifestyle/health-related factors*****
243 .
244 .
245 .
246 . //AFRICAN-AMERICAN//
247 .
248 .
249 . use finaldata_imputed_final,clear

250 .
251 .
252 . //ANALYSIS B//
253 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     67
                                   Average RVI         =    0.0154
                                   Largest FMI         =    0.0361
                                   Complete DF         =     57
DF adjustment:  Small sample      DF:      min      =    52.48
                                   avg                  =    54.33
                                   max                  =    55.05
Model F test:      Equal FMI      F( 9, 55.0)      =     6.28
Within VCE type:  OLS            Prob > F         =    0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	74.99735	96.61668	0.78	0.441	-118.6824	268.6771
Sex	117.3653	86.94483	1.35	0.183	-56.87213	291.6028
w1Age	-10.70044	4.682835	-2.29	0.026	-20.08768	-1.313202
Race	0 (omitted)					
PovStat	-252.5875	77.84717	-3.24	0.002	-408.6284	-96.5467
TIME_V1SCAN	.0517961	.0589245	0.88	0.383	-.0663421	.1699342
w1BMI	.0956579	5.598126	0.02	0.986	-11.12491	11.31623
w1currrdrugs	-172.2387	70.84428	-2.43	0.018	-314.3673	-30.1102
w1SRH	-77.79206	40.90639	-1.90	0.063	-159.7873	4.203213
ICV_volM2	.0013883	.0003732	3.72	0.000	.0006404	.0021363
_cons	2269.196	494.5586	4.59	0.000	1278.075	3260.317

```

254 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     67
                                   Average RVI         =    0.0129
                                   Largest FMI         =    0.0291
                                   Complete DF         =     57
DF adjustment:  Small sample      DF:      min      =    53.12
                                   avg                  =    54.50
                                   max                  =    55.05
Model F test:      Equal FMI      F( 9, 55.0)      =     6.17
Within VCE type:  OLS            Prob > F         =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	63.79713	97.63284	0.65	0.516	-131.9002	259.4944
Sex	41.01308	88.01055	0.47	0.643	-135.3602	217.3864
w1Age	-9.621027	4.732012	-2.03	0.047	-19.10589	-.1361618
Race	0 (omitted)					
PovStat	-253.3766	78.7006	-3.22	0.002	-411.1169	-95.63629
TIME_V1SCAN	.0823097	.05962	1.38	0.173	-.0372196	.2018389
w1BMI	-2.788634	5.661509	-0.49	0.624	-14.13569	8.558424
w1currrdrugs	-156.7845	71.46944	-2.19	0.033	-300.1267	-13.44229
w1SRH	-56.86568	41.39254	-1.37	0.175	-139.8338	26.10242
ICV_volM2	.0016718	.0003773	4.43	0.000	.0009156	.0024279
_cons	2214.483	500.5032	4.42	0.000	1211.459	3217.507

255 .

256 . //ANALYSIS C//

257 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if s

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 67
Average RVI = 0.0027
Largest FMI = 0.0183
Complete DF = 57
DF: min = 53.99
avg = 54.96
max = 55.10
F(9, 55.1) = 2.27
Prob > F = 0.0301

DF adjustment: Small sample

Model F test: Equal FMI
Within VCE type: OLS

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.803407	1.198671	2.34	0.023	.4012838	5.20553
Sex	.6486831	1.084853	0.60	0.552	-1.525332	2.822698
w1Age	-.0073106	.0580973	-0.13	0.900	-.1237361	.1091148
Race	0 (omitted)					
PovStat	-.0794055	.9670824	-0.08	0.935	-2.017407	1.858596
TIME_V1SCAN	-.0008906	.0007302	-1.22	0.228	-.0023539	.0005728
w1BMI	.1337017	.0696158	1.92	0.060	-.0058066	.27321
w1currrdrugs	.4859082	.8766218	0.55	0.582	-1.271617	2.243434
w1SRH	-.899396	.5084854	-1.77	0.082	-1.918418	.1196256
ICV_volM2	6.80e-06	4.64e-06	1.47	0.148	-2.49e-06	.0000161
_cons	-8.690457	6.167022	-1.41	0.164	-21.04896	3.668048

258 .

259 . save, replace

file finaldata_imputed_final.dta saved

260 .

261 .

```

262 .
263 . //WHITES//
264 .
265 . use finaldata_imputed_final,clear

266 .
267 .
268 . //ANALYSIS B//
269 . mi estimate: reg Left_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     96
                                   Average RVI       =    0.0090
                                   Largest FMI       =    0.0583
                                   Complete DF      =     86
DF adjustment:  Small sample      DF:      min    =    74.89
                                   avg              =    82.80
                                   max              =    83.94
Model F test:      Equal FMI      F(   9,   84.0) =    7.69
Within VCE type:   OLS            Prob > F       =    0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-115.4004	86.40246	-1.34	0.185	-287.2375	56.43669
Sex	-54.40018	94.33568	-0.58	0.566	-242.0006	133.2002
w1Age	-1.537082	4.860597	-0.32	0.753	-11.20379	8.129627
Race	0 (omitted)					
PovStat	-88.72919	84.78126	-1.05	0.298	-257.3392	79.88081
TIME_V1SCAN	.0444088	.0577504	0.77	0.444	-.0704531	.1592707
w1BMI	9.583449	5.289914	1.81	0.074	-.9363131	20.10321
w1currrdrugs	80.49263	101.2528	0.79	0.429	-121.2182	282.2035
w1SRH	-17.10642	46.38265	-0.37	0.713	-109.3443	75.13148
ICV_volM2	.0019595	.0003208	6.11	0.000	.0013215	.0025974
_cons	1108.072	509.7383	2.17	0.033	94.38015	2121.765

```

270 . mi estimate: reg Right_Hippocampus LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     96
                                   Average RVI       =    0.0119
                                   Largest FMI       =    0.0976
                                   Complete DF      =     86
DF adjustment:  Small sample      DF:      min    =    65.84
                                   avg              =    82.00
                                   max              =    84.04
Model F test:      Equal FMI      F(   9,   84.0) =   10.65
Within VCE type:   OLS            Prob > F       =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-134.4057	86.39015	-1.56	0.124	-306.2074	37.39592
Sex	-198.8199	94.4826	-2.10	0.038	-386.7117	-10.92807
w1Age	2.188169	4.86609	0.45	0.654	-7.489268	11.86561
Race	0 (omitted)					
PovStat	-79.14296	84.88374	-0.93	0.354	-247.9539	89.66799
TIME_V1SCAN	.1086779	.0576904	1.88	0.063	-.0060528	.2234086
w1BMI	11.93797	5.301699	2.25	0.027	1.394581	22.48135
w1currrdrugs	33.50753	103.4266	0.32	0.747	-172.9997	240.0147
w1SRH	-51.67947	46.449	-1.11	0.269	-144.0486	40.68967
ICV_volM2	.0026075	.0003212	8.12	0.000	.0019689	.0032462
_cons	467.9493	510.9674	0.92	0.362	-548.2114	1484.11

```

271 .
272 . //ANALYSIS C//
273 . mi estimate: reg LnLesion_Volume LnNFLw1 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if s

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     96
                                   Average RVI        =     0.0045
                                   Largest FMI         =     0.0230
                                   Complete DF         =     86
DF adjustment:  Small sample      DF:      min     =    81.44
                                   avg                 =    83.68
                                   max                 =    84.04
Model F test:      Equal FMI      F(   9,   84.0)  =     1.62
Within VCE type:   OLS            Prob > F       =     0.1218

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	3.335409	1.167774	2.86	0.005	1.013078	5.657739
Sex	-.2195479	1.277798	-0.17	0.864	-2.760683	2.321587
w1Age	-.0296904	.065612	-0.45	0.652	-.1601663	.1007854
Race	0 (omitted)					
PovStat	2.123013	1.144798	1.85	0.067	-.1535272	4.399553
TIME_V1SCAN	-.0009993	.0007796	-1.28	0.203	-.0025496	.000551
w1BMI	.0333278	.0715569	0.47	0.643	-.10897	.1756256
w1currrdrugs	-1.133341	1.346983	-0.84	0.403	-3.813194	1.546512
w1SRH	.0790458	.6276754	0.13	0.900	-1.169153	1.327244
ICV_volM2	1.86e-06	4.34e-06	0.43	0.669	-6.77e-06	.0000105
_cons	-4.24625	6.895574	-0.62	0.540	-17.95883	9.466329

```

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

276 .
277 . *****INTERACTION by Race*****
278 .
279 .
280 . //ANALYSIS B//
281 . mi estimate: reg Left_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_v

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0042
                                   Largest FMI         =     0.0381
                                   Complete DF         =     151
DF adjustment:  Small sample      DF:      min     =   136.90
                                   avg                 =   147.90
                                   max                 =   149.02
Model F test:      Equal FMI      F(  11,  149.0)  =     12.00
Within VCE type:   OLS            Prob > F       =     0.0000

```

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-82.25534	71.14354	-1.16	0.249	-222.8372	58.32651
Race						
AfrAm	-359.4647	201.329	-1.79	0.076	-757.295	38.36553
Race#c.LnNFLw1						
AfrAm	141.7461	102.0495	1.39	0.167	-59.90721	343.3994
Sex	5.597262	65.43952	0.09	0.932	-123.7124	134.9069
w1Age	-6.577967	3.264759	-2.01	0.046	-13.0292	-.1267302
Race	0	(omitted)				
PovStat	-172.0476	58.11169	-2.96	0.004	-286.877	-57.21816
TIME_V1SCAN	.0405102	.0410123	0.99	0.325	-.0405314	.1215517
w1BMI	3.695695	3.758626	0.98	0.327	-3.731465	11.12286
w1currrdrugs	-45.65031	61.18473	-0.75	0.457	-166.6397	75.33907
w1SRH	-40.46064	31.35595	-1.29	0.199	-102.4208	21.49952
ICV_volM2	.0016749	.0002424	6.91	0.000	.0011959	.002154
_cons	1946.292	354.2498	5.49	0.000	1246.283	2646.301

282 . mi estimate: reg Right_Hippocampus c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0066
	Largest FMI	=	0.0562
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	127.83
	avg	=	147.05
	max	=	149.01
Model F test: Equal FMI	F(11, 149.0)	=	14.89
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	-75.44621	72.47385	-1.04	0.300	-218.6582	67.76579
Race						
AfrAm	-372.2716	205.0339	-1.82	0.071	-777.4246	32.88148
Race#c.LnNFLw1						
AfrAm	146.9995	103.9445	1.41	0.159	-58.39999	352.399
Sex	-99.16925	66.6538	-1.49	0.139	-230.8793	32.54077
w1Age	-5.045128	3.324031	-1.52	0.131	-11.61349	1.523231
Race	0	(omitted)				
PovStat	-167.4265	59.16716	-2.83	0.005	-284.3415	-50.51147
TIME_V1SCAN	.0837749	.0417908	2.00	0.047	.0011938	.166356
w1BMI	3.99171	3.82714	1.04	0.299	-3.570846	11.55427
w1currrdrugs	-63.01321	62.86108	-1.00	0.318	-187.3962	61.36974
w1SRH	-53.86712	31.9441	-1.69	0.094	-116.9902	9.255918
ICV_volM2	.0021915	.0002469	8.88	0.000	.0017037	.0026793
_cons	1537.761	360.7162	4.26	0.000	824.9731	2250.549


```

283 .
284 . //ANALYSIS C//
285 . mi estimate: reg LnLesion_Volume c.LnNFLw1##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     163
                                   Average RVI         =     0.0008
                                   Largest FMI         =     0.0091
                                   Complete DF         =      151
DF adjustment:  Small sample      DF:      min      =     147.31
                                   avg                  =     148.88
                                   max                  =     149.04
Model F test:      Equal FMI      F( 11, 149.0) =      2.23
Within VCE type:   OLS           Prob > F      =     0.0155

```

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw1	2.825975	.9293135	3.04	0.003	.9896423	4.662308
Race						
AfrAm	1.940699	2.630575	0.74	0.462	-3.25734	7.138739
Race#c.LnNFLw1						
AfrAm	-.1675759	1.332908	-0.13	0.900	-2.801415	2.466264
Sex	.4122861	.855106	0.48	0.630	-1.277411	2.101983
w1Age	.0013345	.0426629	0.03	0.975	-.0829681	.085637
Race	0 (omitted)					
PovStat	1.179436	.7595684	1.55	0.123	-.3214807	2.680353
TIME_V1SCAN	-.0009403	.0005358	-1.75	0.081	-.001999	.0001184
w1BMI	.0714095	.0491	1.45	0.148	-.0256126	.1684317
w1curdrugs	.0353268	.7883472	0.04	0.964	-1.522604	1.593258
w1SRH	-.3002708	.4096453	-0.73	0.465	-1.109734	.5091921
ICV_volM2	2.56e-06	3.17e-06	0.81	0.421	-3.70e-06	8.82e-06
_cons	-5.926825	4.627419	-1.28	0.202	-15.07066	3.217007

```

286 .
287 . save, replace
    file finaldata_imputed_final.dta saved

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

```

```

298 .
299 . **Model 1**
300 .
301 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear

302 .
303 . //ANALYSIS B//
304 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==2,beta
note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	2850651.04	6	475108.507	F(6, 60)	=	7.36
Residual	3871145.65	60	64519.0942	Prob > F	=	0.0000
				R-squared	=	0.4241
				Adj R-squared	=	0.3665
Total	6721796.69	66	101845.404	Root MSE	=	254.01

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	1.528393	75.12293	0.02	0.984	.0023537
Sex	100.3292	89.33881	1.12	0.266	.1562279
w1Age	-8.48243	3.984451	-2.13	0.037	-.2624228
Race	0 (omitted)				.
PovStat	-220.1136	79.86311	-2.76	0.008	-.3360945
TIME_V1SCAN	.0339187	.0604872	0.56	0.577	.0634769
ICV_volM2	.0011359	.0003717	3.06	0.003	.425254
_cons	2425.804	478.5251	5.07	0.000	.

```

305 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final2==1 & Race==2,beta
note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	2981580.83	6	496930.138	F(6, 60)	=	7.76
Residual	3842606.44	60	64043.4407	Prob > F	=	0.0000
				R-squared	=	0.4369
				Adj R-squared	=	0.3806
Total	6824187.27	66	103396.777	Root MSE	=	253.07

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-2.412905	74.84551	-0.03	0.974	-.0036879
Sex	37.91454	89.00888	0.43	0.672	.0585941
w1Age	-8.065539	3.969736	-2.03	0.047	-.2476463
Race	0 (omitted)				.
PovStat	-228.8497	79.56818	-2.88	0.006	-.3468025
TIME_V1SCAN	.0664729	.0602638	1.10	0.274	.1234636
ICV_volM2	.0014325	.0003703	3.87	0.000	.5322439
_cons	2324.002	476.758	4.87	0.000	.

```

306 .
307 . //ANALYSIS C//
308 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==2,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	67
Model	111.125287	6	18.5208812	F(6, 60)	=	1.86
Residual	597.675613	60	9.96126022	Prob > F	=	0.1028
				R-squared	=	0.1568
				Adj R-squared	=	0.0725
Total	708.8009	66	10.7394076	Root MSE	=	3.1561

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	1.224016	.9334382	1.31	0.195	.1835627
Sex	.3559267	1.110077	0.32	0.750	.0539725
w1Age	.0497567	.0495087	1.01	0.319	.149904
Race	0 (omitted)				.
PovStat	.0840337	.9923371	0.08	0.933	.0124954
TIME_V1SCAN	-.001062	.0007516	-1.41	0.163	-.1935391
ICV_volM2	4.67e-06	4.62e-06	1.01	0.317	.1700727
_cons	-3.221315	5.945902	-0.54	0.590	.

```

309 .
310 .
311 . **Model 2**
312 .
313 . use finaldata_imputed_final,clear

```

```

314 .
315 .
316 . //ANALYSIS B//
317 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1 &

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	59
DF adjustment: Small sample	DF: min	=	57.10
	avg	=	57.10
	max	=	57.10
Model F test: Equal FMI	F(7, 57.1)	=	6.23
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5.254991	78.85848	-0.07	0.947	-163.1606	152.6506
Sex	95.43171	91.42489	1.04	0.301	-87.63674	278.5002
w1Age	-7.992473	4.320735	-1.85	0.070	-16.64428	.6593322
Race	0 (omitted)					
PovStat	-217.5332	80.91108	-2.69	0.009	-379.5489	-55.51746
TIME_V1SCAN	.0338874	.0609491	0.56	0.580	-.0881566	.1559315
w1BMI	-1.613874	5.259483	-0.31	0.760	-12.14542	8.917673
ICV_volM2	.001152	.0003782	3.05	0.004	.0003947	.0019093
_cons	2447.452	487.3123	5.02	0.000	1471.661	3423.242

318 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1

```

Multiple-imputation estimates
Linear regression
Imputations = 5
Number of obs = 67
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 59
DF adjustment: Small sample
DF: min = 57.10
      avg = 57.10
      max = 57.10
Model F test: Equal FMI F( 7, 57.1) = 6.71
Within VCE type: OLS Prob > F = 0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-20.24968	78.19237	-0.26	0.797	-176.8215	136.3221
Sex	25.0366	90.65263	0.28	0.783	-156.4855	206.5587
w1Age	-6.777205	4.284239	-1.58	0.119	-15.35593	1.801519
Race	0 (omitted)					
PovStat	-222.0645	80.22764	-2.77	0.008	-382.7117	-61.41735
TIME_V1SCAN	.0663908	.0604343	1.10	0.277	-.0546224	.187404
w1BMI	-4.243651	5.215057	-0.81	0.419	-14.68624	6.198937
ICV_volM2	.0014748	.000375	3.93	0.000	.0007239	.0022257
_cons	2380.923	483.1961	4.93	0.000	1413.376	3348.471

319 .

320 . //ANALYSIS C//

321 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final2==1 &

```

Multiple-imputation estimates
Linear regression
Imputations = 5
Number of obs = 67
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 59
DF adjustment: Small sample
DF: min = 57.10
      avg = 57.10
      max = 57.10
Model F test: Equal FMI F( 7, 57.1) = 1.69
Within VCE type: OLS Prob > F = 0.1292

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.458819	.974554	1.50	0.140	-.4926203	3.410258
Sex	.5254511	1.129853	0.47	0.644	-1.736957	2.78786
w1Age	.0327971	.0533968	0.61	0.542	-.0741242	.1397184
Race	0 (omitted)					
PovStat	-.0052864	.9999206	-0.01	0.996	-2.007519	1.996947
TIME_V1SCAN	-.0010609	.0007532	-1.41	0.164	-.0025691	.0004474
w1BMI	.0558632	.0649981	0.86	0.394	-.0742885	.1860148
ICV_volM2	4.11e-06	4.67e-06	0.88	0.383	-5.25e-06	.0000135
_cons	-3.970627	6.022335	-0.66	0.512	-16.0297	8.088448

```

322 .
323 . save, replace
    file finaldata_imputed_final.dta saved

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

334 .
335 . //ANALYSIS B//
336 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	7090034.51	6	1181672.42	F(6, 89)	=	12.07
Residual	8713181.38	89	97900.9144	Prob > F	=	0.0000
				R-squared	=	0.4486
				Adj R-squared	=	0.4115
Total	15803215.9	95	166349.641	Root MSE	=	312.89

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-170.359	70.50397	-2.42	0.018	-.2182497
Sex	-81.78409	90.41972	-0.90	0.368	-.0997089
w1Age	-2.080153	4.237946	-0.49	0.625	-.0443239
Race	0 (omitted)				.
PovStat	-87.03177	79.47628	-1.10	0.276	-.0928841
TIME_V1SCAN	.0356349	.0531762	0.67	0.505	.0559671
ICV_volM2	.0019737	.0003123	6.32	0.000	.7063658
_cons	1574.553	438.4112	3.59	0.001	.

```

337 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	9436896.24	6	1572816.04	F(6, 89)	=	15.25
Residual	9177973.31	89	103123.296	Prob > F	=	0.0000
				R-squared	=	0.5070
				Adj R-squared	=	0.4737
Total	18614869.6	95	195945.995	Root MSE	=	321.13

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-153.7509	72.36001	-2.12	0.036	-.1814884
Sex	-217.1897	92.80005	-2.34	0.021	-.2439758
w1Age	.4287187	4.349511	0.10	0.922	.008417
Race	0 (omitted)				.
PovStat	-55.4599	81.56851	-0.68	0.498	-.0545363
TIME_V1SCAN	.0795744	.0545761	1.46	0.148	.1151526
ICV_volM2	.0025848	.0003206	8.06	0.000	.8523695
_cons	949.066	449.9525	2.11	0.038	.

```

338 .
339 . //ANALYSIS C//
340 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN    ICV_volM2 if sample_final2==1 & Race==1,beta
    note: Race omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	96
Model	114.875343	6	19.1458905	F(6, 89)	=	0.97
Residual	1755.87892	89	19.7289767	Prob > F	=	0.4500
				R-squared	=	0.0614
				Adj R-squared	=	-0.0019
Total	1870.75426	95	19.6921502	Root MSE	=	4.4417

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	.8621437	1.000858	0.86	0.391	.1015156
Sex	-.343412	1.283577	-0.27	0.790	-.0384809
w1Age	.0577058	.0601609	0.96	0.340	.1130124
Race	0 (omitted)				.
PovStat	1.934682	1.128227	1.71	0.090	.1897743
TIME_V1SCAN	-.000705	.0007549	-0.93	0.353	-.1017688
ICV_volM2	3.26e-06	4.43e-06	0.74	0.464	.1072708
_cons	-4.543555	6.223585	-0.73	0.467	.

```

341 .
342 .
343 . **Model 2**
344 .
345 . use finaldata_imputed_final,clear

```

```

346 .
347 .
348 . //ANALYSIS B//
349 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 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	=	88
DF adjustment: Small sample	DF: min	=	86.07
	avg	=	86.07
	max	=	86.07
Model F test: Equal FMI	F(7, 86.1)	=	10.96
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-161.8023	69.98795	-2.31	0.023	-300.9323	-22.6724
Sex	-67.90344	89.90148	-0.76	0.452	-246.6197	110.8128
w1Age	-1.416793	4.214367	-0.34	0.738	-9.794585	6.961
Race	0 (omitted)					
PovStat	-87.45554	78.68426	-1.11	0.269	-243.873	68.96189
TIME_V1SCAN	.0476895	.0531364	0.90	0.372	-.057941	.1533199
w1BMI	8.471505	5.061193	1.67	0.098	-1.589703	18.53271
ICV_volM2	.0019752	.0003092	6.39	0.000	.0013605	.0025899
_cons	1229.694	480.4577	2.56	0.012	274.5864	2184.802

350 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 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         =     88
DF adjustment:  Small sample      DF:      min     =     86.07
                                   avg                 =     86.07
                                   max                 =     86.07
Model F test:      Equal FMI      F(   7,   86.1) =    14.43
Within VCE type:   OLS            Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-141.9437	70.90092	-2.00	0.048	-282.8886	-.9988993
Sex	-198.0361	91.07422	-2.17	0.032	-379.0837	-16.98854
w1Age	1.344073	4.269342	0.31	0.754	-7.143004	9.831151
Race	0 (omitted)					
PovStat	-56.04465	79.71067	-0.70	0.484	-214.5025	102.4132
TIME_V1SCAN	.0962083	.0538295	1.79	0.077	-.0108001	.2032166
w1BMI	11.68962	5.127214	2.28	0.025	1.497164	21.88207
ICV_volM2	.0025869	.0003133	8.26	0.000	.0019641	.0032096
_cons	473.2045	486.7251	0.97	0.334	-494.3625	1440.771

351 .

352 . //ANALYSIS C//

353 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 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         =     88
DF adjustment:  Small sample      DF:      min     =     86.07
                                   avg                 =     86.07
                                   max                 =     86.07
Model F test:      Equal FMI      F(   7,   86.1) =     0.86
Within VCE type:   OLS            Prob > F      =     0.5396

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.8998487	1.007723	0.89	0.374	-1.103417	2.903114
Sex	-.2822468	1.294449	-0.22	0.828	-2.855497	2.291004
w1Age	.0606289	.0606807	1.00	0.321	-.0599989	.1812567
Race	0 (omitted)					
PovStat	1.932815	1.132937	1.71	0.092	-.3193653	4.184994
TIME_V1SCAN	-.0006519	.0007651	-0.85	0.397	-.0021728	.000869
w1BMI	.0373298	.0728737	0.51	0.610	-.1075367	.1821963
ICV_volM2	3.27e-06	4.45e-06	0.73	0.465	-5.58e-06	.0000121
_cons	-6.063178	6.917882	-0.88	0.383	-19.81532	7.688965

```

354 .
355 . save, replace
      file finaldata_imputed_final.dta saved
356 .
357 .
358 .
359 . //INTERACTION by Race//
360 .
361 .
362 . //ANALYSIS B//
363 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_fi

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0000
                                   Largest FMI         =     0.0000
                                   Complete DF         =     153
DF adjustment:  Small sample      DF:      min      =     151.04
                                   avg                  =     151.04
                                   max                  =     151.04
Model F test:      Equal FMI      F(   9, 151.0)   =     15.16
Within VCE type:  OLS            Prob > F        =     0.0000

```

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-141.1056	62.47048	-2.26	0.025	-264.5344	-17.67673
Race						
AfrAm	-406.7475	204.9369	-1.98	0.049	-811.6608	-1.834173
Race#c.LnNFLw3						
AfrAm	140.878	93.83657	1.50	0.135	-44.52382	326.2798
Sex	6.853257	64.59379	0.11	0.916	-120.7708	134.4773
w1Age	-5.106859	2.962085	-1.72	0.087	-10.95933	.7456136
Race	0 (omitted)					
PovStat	-154.4409	56.05111	-2.76	0.007	-265.1864	-43.69541
TIME_V1SCAN	.0332122	.0398687	0.83	0.406	-.0455602	.1119847
w1BMI	3.007528	3.60238	0.83	0.405	-4.110036	10.12509
ICV_volM2	.0016405	.0002365	6.94	0.000	.0011733	.0021077
_cons	1987.761	348.0687	5.71	0.000	1300.048	2675.473

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0000
                                   Largest FMI         =     0.0000
                                   Complete DF         =     153
DF adjustment:  Small sample      DF:      min      =     151.04
                                   avg                  =     151.04
                                   max                  =     151.04
Model F test:      Equal FMI      F(   9, 151.0)   =     18.03
Within VCE type:  OLS            Prob > F        =     0.0000

```


Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-115.2859	64.31878	-1.79	0.075	-242.3666	11.79485
Race						
AfrAm	-345.327	211.0004	-1.64	0.104	-762.2205	71.5664
Race#c.LnNFLw3						
AfrAm	109.7947	96.61289	1.14	0.258	-81.0926	300.6819
Sex	-95.41671	66.50492	-1.43	0.153	-226.8168	35.98337
w1Age	-3.593809	3.049724	-1.18	0.240	-9.619438	2.431819
Race	0 (omitted)					
PovStat	-144.9366	57.70948	-2.51	0.013	-258.9587	-30.91455
TIME_V1SCAN	.0722886	.0410483	1.76	0.080	-.0088145	.1533917
w1BMI	3.43669	3.708963	0.93	0.356	-3.891461	10.76484
ICV_volM2	.0021308	.0002435	8.75	0.000	.0016498	.0026119
_cons	1532.738	358.3669	4.28	0.000	824.6788	2240.798

365 .

366 . //ANALYSIS C//

367 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_fin

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 163
Average RVI = 0.0000
Largest FMI = 0.0000
Complete DF = 153
DF: min = 151.04
avg = 151.04
max = 151.04
F(9, 151.0) = 1.42
Prob > F = 0.1859

DF adjustment: Small sample

Model F test: Equal FMI
Within VCE type: OLS

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9161609	.8488533	1.08	0.282	-.760999	2.593321
Race						
AfrAm	.3648593	2.784697	0.13	0.896	-5.137131	5.86685
Race#c.LnNFLw3						
AfrAm	.454785	1.275058	0.36	0.722	-2.064468	2.974038
Sex	.2513491	.877705	0.29	0.775	-1.482816	1.985514
w1Age	.0520767	.040249	1.29	0.198	-.0274471	.1316005
Race	0 (omitted)					
PovStat	1.064234	.7616264	1.40	0.164	-.4405835	2.569052
TIME_V1SCAN	-.000871	.0005417	-1.61	0.110	-.0019414	.0001994
w1BMI	.0394205	.0489494	0.81	0.422	-.0572935	.1361345
ICV_volM2	2.72e-06	3.21e-06	0.85	0.398	-3.63e-06	9.07e-06
_cons	-4.263838	4.729582	-0.90	0.369	-13.60852	5.080846

```

368 .
369 . save, replace
      file finaldata_imputed_final.dta saved

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

379 .
380 .
381 . //ANALYSIS B//
382 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs    =          67
                                   Average RVI        =         0.0222
                                   Largest FMI         =         0.1602
                                   Complete DF        =          57
DF adjustment:  Small sample      DF:      min     =         37.60
                                   avg                 =         51.84
                                   max                 =         55.08
Model F test:      Equal FMI      F(   9,   55.0)  =         6.03
Within VCE type:   OLS            Prob > F        =         0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-49.14096	80.80847	-0.61	0.546	-211.3152	113.0332
Sex	98.17902	88.96271	1.10	0.275	-80.219	276.577
w1Age	-5.366701	4.421875	-1.21	0.230	-14.235	3.501597
Race	0 (omitted)					
PovStat	-213.7063	77.43324	-2.76	0.008	-368.8811	-58.53154
TIME_V1SCAN	.0219647	.0587869	0.37	0.710	-.0958513	.1397807
w1BMI	-3.716082	5.082104	-0.73	0.468	-13.90057	6.468409
w1dxDiabetes	-87.96662	63.22089	-1.39	0.172	-215.9949	40.06169
w1Glucose	4.685141	1.761168	2.66	0.010	1.146991	8.223292
ICV_volM2	.0009829	.0003731	2.63	0.011	.0002345	.0017313
_cons	2294.209	471.1676	4.87	0.000	1349.871	3238.546

```

383 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs    =          67
                                   Average RVI        =         0.0046
                                   Largest FMI         =         0.0306
                                   Complete DF        =          57
DF adjustment:  Small sample      DF:      min     =         52.98
                                   avg                 =         54.58
                                   max                 =         55.09
Model F test:      Equal FMI      F(   9,   55.1)  =         8.29
Within VCE type:   OLS            Prob > F        =         0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-55.09952	74.06593	-0.74	0.460	-203.567	93.36799
Sex	15.59873	82.17961	0.19	0.850	-149.1189	180.3163
w1Age	-4.588166	4.075643	-1.13	0.265	-12.75697	3.580643
Race	0 (omitted)					
PovStat	-222.7262	72.04856	-3.09	0.003	-367.1097	-78.3427
TIME_V1SCAN	.0581674	.0546345	1.06	0.292	-.0513202	.167655
w1BMI	-7.080264	4.729022	-1.50	0.140	-16.55719	2.396658
w1dxDiabetes	-58.5007	55.13594	-1.06	0.293	-169.0904	52.089
w1Glucose	5.912763	1.597788	3.70	0.001	2.709981	9.115544
ICV_volM2	.0013	.0003439	3.78	0.000	.0006107	.0019892
_cons	2145.064	437.7397	4.90	0.000	1267.795	3022.334

384 .

385 . //ANALYSIS C//

386 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0008
	Largest FMI	=	0.0079
	Complete DF	=	57
DF adjustment: Small sample	DF: min	=	54.70
	avg	=	55.04
	max	=	55.10
Model F test: Equal FMI	F(9, 55.1)	=	1.33
Within VCE type: OLS	Prob > F	=	0.2435

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.404899	1.039071	1.35	0.182	-.6773866	3.487184
Sex	.5932177	1.154347	0.51	0.609	-1.720058	2.906494
w1Age	.0356059	.0572947	0.62	0.537	-.0792121	.150424
Race	0 (omitted)					
PovStat	.0234379	1.015855	0.02	0.982	-2.012298	2.059174
TIME_V1SCAN	-.0010848	.0007701	-1.41	0.165	-.0026281	.0004586
w1BMI	.0600602	.0666668	0.90	0.372	-.0735378	.1936582
w1dxDiabetes	-.187817	.768931	-0.24	0.808	-1.728976	1.353342
w1Glucose	-.0072259	.0224391	-0.32	0.749	-.0521957	.0377439
ICV_volM2	4.16e-06	4.83e-06	0.86	0.392	-5.51e-06	.0000138
_cons	-3.503549	6.1646	-0.57	0.572	-15.8572	8.850103

387 .

388 . save, replace

file finaldata_imputed_final.dta saved

389 .

390 .

```

391 .
392 . //WHITE//
393 .
394 . use finaldata_imputed_final,clear

395 .
396 .
397 . //ANALYSIS B//
398 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     96
                                   Average RVI         =     0.0000
                                   Largest FMI         =     0.0000
                                   Complete DF        =     86
DF adjustment:  Small sample      DF:      min      =     84.07
                                   avg              =     84.07
                                   max              =     84.07
Model F test:      Equal FMI      F(   9,   84.1)   =     8.53
Within VCE type:   OLS           Prob > F         =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-179.8155	74.93459	-2.40	0.019	-328.8294	-30.80161
Sex	-80.78401	91.58924	-0.88	0.380	-262.9171	101.3491
w1Age	-1.773304	4.283436	-0.41	0.680	-10.29129	6.744679
Race	0 (omitted)					
PovStat	-97.29622	79.90756	-1.22	0.227	-256.1993	61.60686
TIME_V1SCAN	.0583018	.0545818	1.07	0.289	-.0502389	.1668425
w1BMI	6.995737	5.303622	1.32	0.191	-3.550974	17.54245
w1dxDiabetes	36.91038	69.58166	0.53	0.597	-101.4588	175.2795
w1Glucose	.3914494	1.483548	0.26	0.793	-2.558713	3.341612
ICV_volM2	.0019604	.0003152	6.22	0.000	.0013336	.0025871
_cons	1306.485	515.6749	2.53	0.013	281.0209	2331.949

```

399 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     96
                                   Average RVI         =     0.0000
                                   Largest FMI         =     0.0000
                                   Complete DF        =     86
DF adjustment:  Small sample      DF:      min      =     84.07
                                   avg              =     84.07
                                   max              =     84.07
Model F test:      Equal FMI      F(   9,   84.1)   =    11.16
Within VCE type:   OLS           Prob > F         =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-162.505	76.00197	-2.14	0.035	-313.6415	-11.36849
Sex	-210.9234	92.89385	-2.27	0.026	-395.6508	-26.19594
w1Age	1.180823	4.34445	0.27	0.786	-7.458491	9.820138
Race	0 (omitted)					
PovStat	-63.09688	81.04577	-0.78	0.438	-224.2634	98.06965
TIME_V1SCAN	.1044727	.0553593	1.89	0.063	-.0056141	.2145594
w1BMI	10.41958	5.379168	1.94	0.056	-.2773561	21.11652
w1dxDiabetes	14.91953	70.57279	0.21	0.833	-125.4206	155.2596
w1Glucose	.7402367	1.50468	0.49	0.624	-2.251949	3.732422
ICV_volM2	.002588	.0003197	8.10	0.000	.0019524	.0032237
_cons	492.8709	523.0202	0.94	0.349	-547.2	1532.942

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	84.07
	avg	=	84.07
	max	=	84.07
Model F test: Equal FMI	F(9, 84.1)	=	0.67
Within VCE type: OLS	Prob > F	=	0.7298

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9301248	1.084098	0.86	0.393	-1.225697	3.085946
Sex	-.2403099	1.325045	-0.18	0.857	-2.875276	2.394656
w1Age	.0639516	.0619696	1.03	0.305	-.0592802	.1871834
Race	0 (omitted)					
PovStat	1.996075	1.156043	1.73	0.088	-.3028162	4.294966
TIME_V1SCAN	-.0007127	.0007896	-0.90	0.369	-.002283	.0008575
w1BMI	.0444425	.0767288	0.58	0.564	-.1081394	.1970244
w1dxDiabetes	-.3661548	1.006655	-0.36	0.717	-2.367976	1.635666
w1Glucose	.0026212	.0214629	0.12	0.903	-.0400595	.045302
ICV_volM2	3.49e-06	4.56e-06	0.77	0.446	-5.57e-06	.0000126
_cons	-6.952054	7.460399	-0.93	0.354	-21.7877	7.883593

```

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

```

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0043
	Largest FMI	=	0.0467
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	132.75
	avg	=	147.20
	max	=	149.04
Model F test: Equal FMI	F(11, 149.0)	=	12.78
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-177.0605	65.45262	-2.71	0.008	-306.396	-47.72499
Race						
AfrAm	-470.8188	207.5339	-2.27	0.025	-880.9089	-60.72869
Race#c.LnNFLw3						
AfrAm	173.3039	95.22846	1.82	0.071	-14.86876	361.4766
Sex	-8.771197	64.91988	-0.14	0.893	-137.0536	119.5112
w1Age	-4.980036	3.019056	-1.65	0.101	-10.94584	.9857648
Race	0 (omitted)					
PovStat	-161.8968	56.0105	-2.89	0.004	-272.5741	-51.2194
TIME_V1SCAN	.0410463	.040198	1.02	0.309	-.0383857	.1204782
w1BMI	1.595738	3.673549	0.43	0.665	-5.663241	8.854717
w1dxDiabetes	-.7002073	46.82194	-0.01	0.988	-93.31381	91.91339
w1Glucose	1.586994	1.116525	1.42	0.157	-.6198548	3.793843
ICV_volM2	.001645	.0002355	6.98	0.000	.0011796	.0021103
_cons	1952.692	357.3623	5.46	0.000	1246.525	2658.858

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0003
	Largest FMI	=	0.0031
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	148.57
	avg	=	148.98
	max	=	149.04
Model F test: Equal FMI	F(11, 149.0)	=	15.70
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-162.2377	66.79819	-2.43	0.016	-294.2316	-30.24386
Race						
AfrAm	-437.1091	211.8127	-2.06	0.041	-855.6528	-18.56533
Race#c.LnNFLw3						
AfrAm	155.6431	97.19654	1.60	0.111	-36.41812	347.7044
Sex	-117.5574	66.26492	-1.77	0.078	-248.4975	13.3827
w1Age	-3.600681	3.07846	-1.17	0.244	-9.683749	2.482387
Race	0 (omitted)					
PovStat	-155.8038	57.17274	-2.73	0.007	-268.7777	-42.82997
TIME_V1SCAN	.0842267	.0410219	2.05	0.042	.0031671	.1652862
w1BMI	1.452286	3.749517	0.39	0.699	-5.956795	8.861366
w1dxDiabetes	11.82312	46.77331	0.25	0.801	-80.60375	104.25
w1Glucose	1.95626	1.129659	1.73	0.085	-.2759798	4.188501
ICV_volM2	.0021357	.0002404	8.88	0.000	.0016606	.0026107
_cons	1508.048	364.3884	4.14	0.000	788.0116	2228.083

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     163
                                   Average RVI        =     0.0003
                                   Largest FMI         =     0.0029
                                   Complete DF         =     151
DF adjustment:  Small sample      DF:      min     =    148.59
                                   avg                 =    148.98
                                   max                 =    149.04
Model F test:      Equal FMI      F( 11, 149.0) =     1.19
Within VCE type:   OLS           Prob > F      =     0.2990

```

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9946109	.8979368	1.11	0.270	-.7797207	2.768943
Race						
AfrAm	.6896191	2.847371	0.24	0.809	-4.936814	6.316053
Race#c.LnNFLw3						
AfrAm	.3048273	1.306604	0.23	0.816	-2.277035	2.88669
Sex	.3228415	.8908104	0.36	0.718	-1.437409	2.083092
w1Age	.0560338	.0413817	1.35	0.178	-.0257368	.1378045
Race	0 (omitted)					
PovStat	1.110649	.7685566	1.45	0.151	-.408026	2.629325
TIME_V1SCAN	-.000931	.0005514	-1.69	0.093	-.0020206	.0001587
w1BMI	.0458902	.0504031	0.91	0.364	-.0537068	.1454872
w1dxDiabetes	-.3160763	.6287176	-0.50	0.616	-1.558459	.926306
w1Glucose	-.0005545	.0151856	-0.04	0.971	-.0305617	.0294527
ICV_volM2	2.76e-06	3.23e-06	0.85	0.395	-3.63e-06	9.14e-06
_cons	-4.726864	4.89848	-0.96	0.336	-14.40633	4.952599

```

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

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

426 .
427 . //ANALYSIS B//
428 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN
    > =2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     67
                                   Average RVI         =    0.1377
                                   Largest FMI          =    0.6657
                                   Complete DF          =     54
DF adjustment:   Small sample     DF:      min      =     7.26
                                   avg                  =    44.86
                                   max                  =    51.54
Model F test:      Equal FMI      F( 11, 50.1)    =     3.30
Within VCE type:   OLS           Prob > F        =    0.0018

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-13.95594	87.21063	-0.16	0.873	-188.9942	161.0823
Sex	95.59773	137.3404	0.70	0.492	-184.8257	376.0212
w1Age	-8.140242	5.154889	-1.58	0.120	-18.48833	2.207843
Race	0 (omitted)					
PovStat	-207.3694	85.47359	-2.43	0.019	-378.9915	-35.74727
TIME_V1SCAN	.0284821	.0661283	0.43	0.669	-.1045389	.1615031
w1BMI	-.724773	6.425114	-0.11	0.911	-13.6405	12.19096
w1Creatinine	74.35231	250.6608	0.30	0.775	-514.0469	662.7515
w1USpecGrav	-4188.499	5410.191	-0.77	0.442	-15055.88	6678.885
w1BUN	3.643435	12.35182	0.29	0.769	-21.18424	28.47111
w1ALP	-.0446226	1.930171	-0.02	0.982	-3.923443	3.834198
w1UricAcid	-13.40582	30.29201	-0.44	0.660	-74.22461	47.41296
ICV_volM2	.0011633	.0004205	2.77	0.008	.000318	.0020086
_cons	6663.433	5474.044	1.22	0.229	-4329.525	17656.39

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     67
                                   Average RVI         =    0.0588
                                   Largest FMI          =    0.4317
                                   Complete DF          =     54
DF adjustment:   Small sample     DF:      min      =    14.79
                                   avg                  =    47.66
                                   max                  =    51.97
Model F test:      Equal FMI      F( 11, 51.5)    =     4.01
Within VCE type:   OLS           Prob > F        =    0.0003

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-38.93951	85.61216	-0.45	0.651	-210.7355	132.8565
Sex	-4.123882	126.8679	-0.03	0.974	-259.791	251.5432
w1Age	-7.907982	5.054397	-1.56	0.124	-18.0514	2.23544
Race	0 (omitted)					
PovStat	-221.3507	83.48471	-2.65	0.011	-388.8863	-53.81509
TIME_V1SCAN	.0746189	.0642457	1.16	0.251	-.0544297	.2036674
w1BMI	-6.793294	6.255357	-1.09	0.283	-19.35439	5.767799
w1Creatinine	76.57835	198.9112	0.38	0.706	-347.9058	501.0625
w1USpecGrav	376.0752	5316.492	0.07	0.944	-10300.78	11052.93
w1BUN	13.84096	12.0041	1.15	0.254	-10.25918	37.9411
w1ALP	-.5298462	1.881907	-0.28	0.779	-4.308348	3.248656
w1UricAcid	-8.133584	29.74346	-0.27	0.786	-67.83729	51.57012
ICV_volM2	.0015537	.0004082	3.81	0.000	.0007341	.0023734
_cons	1929.993	5385.394	0.36	0.722	-8883.723	12743.71


```

430 .
431 . //ANALYSIS C//
432 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
> 2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0208
	Largest FMI	=	0.1100
	Complete DF	=	54
DF adjustment: Small sample	DF: min	=	41.83
	avg	=	50.20
	max	=	51.86
Model F test: Equal FMI	F(11, 52.0)	=	1.49
Within VCE type: OLS	Prob > F	=	0.1639

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.649326	1.055735	1.56	0.124	-.4704674	3.769119
Sex	.1186905	1.518896	0.08	0.938	-2.934751	3.172132
w1Age	.0322536	.0618104	0.52	0.604	-.0917987	.156306
Race	0 (omitted)					
PovStat	.2521672	1.025299	0.25	0.807	-1.806062	2.310396
TIME_V1SCAN	-.0013191	.0007787	-1.69	0.096	-.0028822	.0002441
w1BMI	.0724991	.0766506	0.95	0.349	-.0814605	.2264587
w1Creatinine	1.823648	2.011527	0.91	0.370	-2.236268	5.883564
w1USpecGrav	-104.8768	64.30116	-1.63	0.109	-233.9207	24.16706
w1BUN	.094464	.1456808	0.65	0.520	-.1978939	.386822
w1ALP	-.0193877	.0228705	-0.85	0.401	-.0652917	.0265162
w1UricAcid	-.3987618	.3617585	-1.10	0.275	-1.124729	.3272052
ICV_volM2	5.57e-06	5.03e-06	1.11	0.273	-4.53e-06	.0000157
_cons	101.7825	65.30566	1.56	0.125	-29.28377	232.8487

```

433 .
434 . save, replace
      file finaldata_imputed_final.dta saved

```

```

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

```

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0286
	Largest FMI	=	0.2089
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	41.12
	avg	=	72.98
	max	=	80.90
Model F test: Equal FMI	F(11, 80.8)	=	7.00
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-183.752	75.31367	-2.44	0.017	-333.6138	-33.89023
Sex	-94.97325	114.6321	-0.83	0.410	-323.1435	133.197
w1Age	-1.371368	4.329982	-0.32	0.752	-9.987103	7.244367
Race	0	(omitted)				
PovStat	-77.74981	81.15291	-0.96	0.341	-239.2353	83.73568
TIME_V1SCAN	.0525803	.0559684	0.94	0.350	-.0588026	.1639631
w1BMI	7.13657	5.807241	1.23	0.223	-4.418639	18.69178
w1Creatinine	-100.9116	222.4487	-0.45	0.652	-550.1174	348.2942
w1USpecGrav	-4620.509	7121.31	-0.65	0.519	-18877.02	9636.004
w1BUN	15.26648	9.818031	1.55	0.125	-4.320534	34.85349
w1ALP	-1.329169	1.569534	-0.85	0.400	-4.452108	1.79377
w1UricAcid	8.952385	28.56843	0.31	0.755	-47.89221	65.79698
ICV_volM2	.0021049	.0003308	6.36	0.000	.0014466	.0027632
_cons	5780.882	7085.472	0.82	0.418	-8402.552	19964.32

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0223
	Largest FMI	=	0.1588
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	50.47
	avg	=	74.17
	max	=	81.03
Model F test: Equal FMI	F(11, 80.9)	=	9.02
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-169.9476	76.5165	-2.22	0.029	-322.1931	-17.70207
Sex	-201.4306	116.5952	-1.73	0.088	-433.4996	30.63839
w1Age	1.007386	4.401611	0.23	0.820	-7.750494	9.765267
Race	0	(omitted)				
PovStat	-43.47824	82.62032	-0.53	0.600	-207.8851	120.9286
TIME_V1SCAN	.0983139	.056908	1.73	0.088	-.0149335	.2115614
w1BMI	11.45981	5.912171	1.94	0.056	-.3042755	23.22389
w1Creatinine	-45.40891	220.5234	-0.21	0.838	-488.2401	397.4223
w1USpecGrav	-5585.605	7241.88	-0.77	0.444	-20081.38	8910.173
w1BUN	15.6447	9.902222	1.58	0.118	-4.09145	35.38086
w1ALP	-.1567457	1.597418	-0.10	0.922	-3.335161	3.02167
w1UricAcid	-4.790662	29.03722	-0.16	0.869	-62.5653	52.98398
ICV_volM2	.0026748	.0003364	7.95	0.000	.0020055	.0033442
_cons	5964.779	7206.571	0.83	0.411	-8459.35	20388.91

446 .

447 . //ANALYSIS C//

448 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w
> 1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0069
	Largest FMI	=	0.0622
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	71.58
	avg	=	79.85
	max	=	81.04
Model F test: Equal FMI	F(11, 81.0)	=	0.84
Within VCE type: OLS	Prob > F	=	0.6015

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.6826397	1.085617	0.63	0.531	-1.477459	2.842738
Sex	-1.168372	1.643269	-0.71	0.479	-4.438203	2.101458
w1Age	.0567597	.0624528	0.91	0.366	-.0675042	.1810236
Race	0 (omitted)					
PovStat	1.580389	1.168387	1.35	0.180	-.7443485	3.905126
TIME_V1SCAN	-.0008631	.0008053	-1.07	0.287	-.0024655	.0007394
w1BMI	-.0151189	.0837439	-0.18	0.857	-.1817459	.1515081
w1Creatinine	.7278194	2.978421	0.24	0.808	-5.210146	6.665784
w1USpecGrav	144.603	97.43424	1.48	0.142	-49.32267	338.5287
w1BUN	.0288744	.1371707	0.21	0.834	-.2440834	.3018322
w1ALP	-.0068634	.0226621	-0.30	0.763	-.0519553	.0382285
w1UricAcid	.2134188	.4124278	0.52	0.606	-.6072172	1.034055
ICV_volM2	3.12e-06	4.75e-06	0.66	0.513	-6.33e-06	.0000126
_cons	-150.6212	97.04077	-1.55	0.125	-343.768	42.52562

449 .

450 . save, replace
file finaldata_imputed_final.dta saved

451 .

452 . **INTERACTION by Race**

453 .

454 .

455 .

456 . //ANALYSIS B//

457 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGra

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0505
	Largest FMI	=	0.4390
	Complete DF	=	148
DF adjustment: Small sample	DF: min	=	19.99
	avg	=	131.36
	max	=	145.90
Model F test: Equal FMI	F(13, 144.5)	=	10.01
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-156.8173	65.94733	-2.38	0.019	-287.1825	-26.45213
Race						
AfrAm	-384.9854	210.5618	-1.83	0.070	-801.1762	31.20543
Race#c.LnNFLw3						
AfrAm	141.2915	95.59468	1.48	0.142	-47.64358	330.2265
Sex	-4.953963	84.26199	-0.06	0.953	-171.8597	161.9518
w1Age	-5.792269	3.104299	-1.87	0.064	-11.92753	.3429943
Race	0 (omitted)					
PovStat	-146.4719	57.29163	-2.56	0.012	-259.702	-33.24166
TIME_V1SCAN	.0293617	.0407059	0.72	0.472	-.0510918	.1098152
w1BMI	2.519949	4.154221	0.61	0.545	-5.690391	10.73029
w1Creatinine	10.71996	155.3967	0.07	0.946	-313.444	334.884
w1USpecGrav	-3079.483	4259.146	-0.72	0.471	-11505.81	5346.844
w1BUN	10.32121	7.390746	1.40	0.165	-4.304906	24.94733
w1ALP	-.5951224	1.172811	-0.51	0.613	-2.913134	1.72289
w1UricAcid	-3.613574	20.40919	-0.18	0.860	-43.94963	36.72248
ICV_volM2	.001689	.0002466	6.85	0.000	.0012015	.0021764
_cons	5061.51	4272.041	1.18	0.238	-3390.556	13513.58

458 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
> 1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0152
	Largest FMI	=	0.1533
	Complete DF	=	148
DF adjustment: Small sample	DF: min	=	76.38
	avg	=	139.17
	max	=	145.93
Model F test: Equal FMI	F(13, 145.8)	=	12.40
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-140.321	67.37953	-2.08	0.039	-273.4915	-7.150459
Race						
AfrAm	-327.3126	215.6893	-1.52	0.131	-753.5973	98.97213
Race#c.LnNFLw3						
AfrAm	114.007	98.16126	1.16	0.247	-79.99483	308.0089
Sex	-97.93548	84.27188	-1.16	0.247	-264.5314	68.66042
w1Age	-4.324168	3.190397	-1.36	0.177	-10.62952	1.981186
Race	0 (omitted)					
PovStat	-138.9176	58.88965	-2.36	0.020	-255.305	-22.53017
TIME_V1SCAN	.0666438	.0417956	1.59	0.113	-.0159605	.1492481
w1BMI	2.856563	4.269984	0.67	0.505	-5.582489	11.29561
w1Creatinine	34.64506	134.3906	0.26	0.797	-232.9955	302.2856
w1USpecGrav	-1158.846	4357.405	-0.27	0.791	-9776.644	7458.952
w1BUN	12.42319	7.447849	1.67	0.097	-2.298911	27.14529
w1ALP	-.0121788	1.204515	-0.01	0.992	-2.392784	2.368426
w1UricAcid	-11.28841	20.9818	-0.54	0.591	-52.7559	30.17908
ICV_volM2	.0021547	.0002537	8.49	0.000	.0016534	.0026561
_cons	2646.681	4368.467	0.61	0.546	-5992.939	11286.3

```

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

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0061
	Largest FMI	=	0.0639
	Complete DF	=	148
DF adjustment: Small sample	DF: min	=	121.52
	avg	=	144.00
	max	=	145.94
Model F test: Equal FMI	F(13, 146.0)	=	1.09
Within VCE type: OLS	Prob > F	=	0.3706

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.7097223	.8939373	0.79	0.429	-1.057063	2.476508
Race						
AfrAm	.1714671	2.861075	0.06	0.952	-5.483054	5.825989
Race#c.LnNFLw3						
AfrAm	.6099839	1.303009	0.47	0.640	-1.965236	3.185204
Sex	-.1316446	1.112204	-0.12	0.906	-2.329933	2.066644
w1Age	.050134	.0423982	1.18	0.239	-.033662	.13393
Race	0 (omitted)					
PovStat	1.067768	.781395	1.37	0.174	-.4765461	2.612083
TIME_V1SCAN	-.0009403	.0005547	-1.70	0.092	-.0020366	.000156
w1BMI	.0208918	.0567021	0.37	0.713	-.0911735	.132957
w1Creatinine	.8482105	1.704066	0.50	0.620	-2.525292	4.221713
w1USpecGrav	25.15049	56.83514	0.44	0.659	-87.17696	137.4779
w1BUN	.0741195	.0983541	0.75	0.452	-.1202691	.268508
w1ALP	-.0090086	.0159875	-0.56	0.574	-.0406064	.0225892
w1UricAcid	-.0259788	.2784517	-0.09	0.926	-.5762975	.5243399
ICV_volM2	3.02e-06	3.37e-06	0.90	0.371	-3.63e-06	9.67e-06
_cons	-29.52888	56.98905	-0.52	0.605	-142.1606	83.10288

```

462 .
463 . save, replace
    file finaldata_imputed_final.dta saved

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

```

471 .
 472 .
 473 . //ANALYSIS B//
 474 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0813
	Largest FMI	=	0.4949
	Complete DF	=	56
DF adjustment: Small sample	DF: min	=	12.33
	avg	=	49.59
	max	=	54.07
Model F test: Equal FMI	F(10, 53.2)	=	4.61
Within VCE type: OLS	Prob > F	=	0.0001

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	2.309218	80.54678	0.03	0.977	-159.2911	163.9095
Sex	75.95349	91.94049	0.83	0.412	-108.3974	260.3043
w1Age	-6.895857	4.340972	-1.59	0.118	-15.60342	1.811703
Race	0 (omitted)					
PovStat	-225.4855	81.27969	-2.77	0.008	-388.5362	-62.43489
TIME_V1SCAN	.0455976	.0632353	0.72	0.474	-.0812622	.1724574
w1BMI	.3750498	5.395867	0.07	0.945	-10.44505	11.19515
w1TotalD	-3.094804	6.776269	-0.46	0.656	-17.81511	11.6255
w1Albumin	236.1765	118.652	1.99	0.052	-1.699354	474.0523
w1EosinPct	.2600267	17.87802	0.01	0.988	-35.58835	36.1084
ICV_volM2	.0011698	.0003743	3.13	0.003	.0004193	.0019203
_cons	1342.88	750.4681	1.79	0.079	-161.7839	2847.545

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0683
	Largest FMI	=	0.4087
	Complete DF	=	56
DF adjustment: Small sample	DF: min	=	16.18
	avg	=	49.31
	max	=	53.69
Model F test: Equal FMI	F(10, 53.4)	=	4.99
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.4935807	79.72105	-0.01	0.995	-160.4158	159.4287
Sex	3.983069	92.11036	0.04	0.966	-180.837	188.8032
w1Age	-5.607216	4.34813	-1.29	0.203	-14.3364	3.121973
Race	0 (omitted)					
PovStat	-235.7211	80.69716	-2.92	0.005	-397.6184	-73.82387
TIME_V1SCAN	.0652647	.0628973	1.04	0.304	-.0609489	.1914784
w1BMI	-2.911942	5.387973	-0.54	0.591	-13.72126	7.897376
w1TotalD	-6.348695	6.303915	-1.01	0.329	-19.70007	7.002677
w1Albumin	197.5953	118.0451	1.67	0.100	-39.10414	434.2947
w1EosinPct	-.8361844	17.77721	-0.05	0.963	-36.48838	34.81601
ICV_volM2	.0015114	.0003738	4.04	0.000	.0007615	.0022613
_cons	1501.119	745.3498	2.01	0.049	6.584086	2995.654

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     67
                                   Average RVI        =     0.0227
                                   Largest FMI         =     0.1867
                                   Complete DF         =     56
DF adjustment:  Small sample      DF:      min     =     33.99
                                   avg                 =     52.07
                                   max                 =     54.04
Model F test:      Equal FMI      F( 10, 54.0)    =     1.17
Within VCE type:   OLS            Prob > F        =     0.3290

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.370227	1.02394	1.34	0.186	-.6829629	3.423417
Sex	.5995378	1.176447	0.51	0.612	-1.759146	2.958222
w1Age	.0270665	.0552027	0.49	0.626	-.0836111	.137744
Race	0 (omitted)					
PovStat	.088103	1.034651	0.09	0.932	-1.986524	2.16273
TIME_V1SCAN	-.0010327	.0008041	-1.28	0.205	-.002645	.0005796
w1BMI	.053681	.0689232	0.78	0.439	-.0845014	.1918635
w1TotalD	.0350445	.0714728	0.49	0.627	-.1102078	.1802968
w1Albumin	-.7380766	1.525932	-0.48	0.631	-3.797799	2.321646
w1EosinPct	.0362559	.2284835	0.16	0.875	-.4218186	.4943303
ICV_volM2	3.91e-06	4.79e-06	0.82	0.418	-5.69e-06	.0000135
_cons	-.9513746	9.609194	-0.10	0.921	-20.21638	18.31363

```

479 .
480 . save, replace
    file finaldata_imputed_final.dta saved
481 .
482 .
483 .
484 . //WHITES//
485 .
486 . use finaldata_imputed_final,clear
487 .
488 .
489 .
490 . //ANALYSIS B//
491 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct I

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     96
                                   Average RVI        =     0.0085
                                   Largest FMI         =     0.0544
                                   Complete DF         =     85
DF adjustment:  Small sample      DF:      min     =     74.86
                                   avg                 =     81.97
                                   max                 =     83.05
Model F test:      Equal FMI      F( 10, 83.0)    =     7.57
Within VCE type:   OLS            Prob > F        =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-162.5973	70.80629	-2.30	0.024	-303.4268	-21.7677
Sex	-81.18148	93.81229	-0.87	0.389	-267.7717	105.4088
w1Age	-1.133418	4.286961	-0.26	0.792	-9.659974	7.393139
Race	0 (omitted)					
PovStat	-94.38516	79.90172	-1.18	0.241	-253.3052	64.53484
TIME_V1SCAN	.0625553	.055488	1.13	0.263	-.0478077	.1729183
w1BMI	9.989599	5.401111	1.85	0.068	-.7530146	20.73221
w1TotalD	.6761437	3.368228	0.20	0.841	-6.033913	7.3862
w1Albumin	137.921	139.1635	0.99	0.325	-138.8673	414.7094
w1EosinPct	-7.44841	16.85033	-0.44	0.660	-40.98374	26.08692
ICV_volM2	.0019667	.0003151	6.24	0.000	.0013399	.0025935
_cons	586.0086	829.3514	0.71	0.482	-1063.527	2235.544

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0056
	Largest FMI	=	0.0405
	Complete DF	=	85
DF adjustment: Small sample	DF: min	=	77.58
	avg	=	82.41
	max	=	83.06
Model F test: Equal FMI	F(10, 83.0)	=	9.79
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-139.8136	72.04969	-1.94	0.056	-283.1159	3.488655
Sex	-209.7056	95.41163	-2.20	0.031	-399.4735	-19.93762
w1Age	1.55369	4.361686	0.36	0.723	-7.121438	10.22882
Race	0 (omitted)					
PovStat	-57.83545	81.30187	-0.71	0.479	-219.5398	103.8689
TIME_V1SCAN	.0957126	.0564644	1.70	0.094	-.0165925	.2080177
w1BMI	12.0177	5.496106	2.19	0.032	1.086158	22.94924
w1TotalD	-1.269844	3.360135	-0.38	0.706	-7.954624	5.414937
w1Albumin	31.26356	141.7092	0.22	0.826	-250.5937	313.1208
w1EosinPct	7.419679	17.25058	0.43	0.668	-26.92655	41.76591
ICV_volM2	.0026116	.0003206	8.15	0.000	.0019741	.0032492
_cons	310.6675	844.0984	0.37	0.714	-1368.207	1989.542

493 .

494 . //ANALYSIS C//

495 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct I

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	96
	Average RVI	=	0.0027
	Largest FMI	=	0.0272
	Complete DF	=	85
DF adjustment: Small sample	DF: min	=	79.85
	avg	=	82.76
	max	=	83.07
Model F test: Equal FMI	F(10, 83.1)	=	0.72
Within VCE type: OLS	Prob > F	=	0.7013

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9321029	1.018852	0.91	0.363	-1.094328	2.958534
Sex	-.658704	1.349191	-0.49	0.627	-3.342161	2.024753
w1Age	.0667643	.0616807	1.08	0.282	-.0559149	.1894435
Race	0 (omitted)					
PovStat	1.850578	1.149697	1.61	0.111	-.4360961	4.137252
TIME_V1SCAN	-.0005177	.0007983	-0.65	0.518	-.0021056	.0010701
w1BMI	.0621805	.0777034	0.80	0.426	-.0923674	.2167284
w1TotalD	-.0037842	.0478222	-0.08	0.937	-.0989561	.0913876
w1Albumin	1.83407	2.002507	0.92	0.362	-2.148797	5.816936
w1EosinPct	.1335969	.2392239	0.56	0.578	-.3422052	.6093989
ICV_volM2	3.75e-06	4.53e-06	0.83	0.411	-5.27e-06	.0000128
_cons	-15.73248	11.93393	-1.32	0.191	-39.46839	8.003422

496 .

497 . save, replace

file finaldata_imputed_final.dta saved

498 .

499 .

500 . *****INTERACTION by Race*****

501 .

502 .

503 . //ANALYSIS B//

504 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0225
	Largest FMI	=	0.2109
	Complete DF	=	150
DF adjustment: Small sample	DF: min	=	56.21
	avg	=	140.09
	max	=	148.01
Model F test: Equal FMI	F(12, 147.7)	=	11.54
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-141.1489	62.3245	-2.26	0.025	-264.3097	-17.98814
Race						
AfrAm	-405.3498	209.5812	-1.93	0.055	-819.5534	8.853669
Race#c.LnNFLw3						
AfrAm	140.9647	93.83577	1.50	0.135	-44.46904	326.3985
Sex	-8.565918	66.02059	-0.13	0.897	-139.0318	121.9
w1Age	-4.680746	2.972368	-1.57	0.117	-10.55457	1.193082
Race	0 (omitted)					
PovStat	-161.6891	56.12592	-2.88	0.005	-272.6015	-50.77666
TIME_V1SCAN	.0484543	.0408627	1.19	0.238	-.032298	.1292066
w1BMI	4.754365	3.763115	1.26	0.208	-2.682093	12.19082
w1TotalD	-.1487366	2.970861	-0.05	0.960	-6.099596	5.802122
w1Albumin	177.8222	92.2297	1.93	0.056	-4.435015	360.0794
w1EosinPct	-6.646752	12.2307	-0.54	0.588	-30.8262	17.5327
ICV_volM2	.0016397	.0002368	6.92	0.000	.0011718	.0021076
_cons	1166.625	571.3517	2.04	0.043	37.5475	2295.703

505 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0125
	Largest FMI	=	0.0977
	Complete DF	=	150
DF adjustment: Small sample	DF: min	=	104.29
	avg	=	143.58
	max	=	148.03
Model F test: Equal FMI	F(12, 147.9)	=	13.45
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-112.7264	64.62516	-1.74	0.083	-240.4347	14.9819
Race						
AfrAm	-374.7742	216.6565	-1.73	0.086	-802.9334	53.38496
Race#c.LnNFLw3						
AfrAm	114.9894	97.22541	1.18	0.239	-77.1419	307.1208
Sex	-112.5385	68.44604	-1.64	0.102	-247.7983	22.72133
w1Age	-3.090001	3.084942	-1.00	0.318	-9.186473	3.00647
Race	0 (omitted)					
PovStat	-152.2838	58.2108	-2.62	0.010	-267.3179	-37.24973
TIME_V1SCAN	.0773633	.0422975	1.83	0.069	-.0062224	.1609491
w1BMI	4.32386	3.897637	1.11	0.269	-3.378351	12.02607
w1TotalD	-2.501039	2.901624	-0.86	0.391	-8.254879	3.2528
w1Albumin	111.1831	95.57404	1.16	0.247	-77.6826	300.0488
w1EosinPct	1.476301	12.73336	0.12	0.908	-23.7029	26.6555
ICV_volM2	.0021498	.0002454	8.76	0.000	.0016648	.0026347
_cons	1052.563	591.6938	1.78	0.077	-116.6978	2221.824

506 .

507 . //ANALYSIS C//

508 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1Eo

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0052
	Largest FMI	=	0.0599
	Complete DF	=	150
DF adjustment: Small sample	DF: min	=	125.10
	avg	=	146.19
	max	=	148.02
Model F test: Equal FMI	F(12, 148.0)	=	1.14
Within VCE type: OLS	Prob > F	=	0.3329

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9384552	.8552994	1.10	0.274	-.75172	2.62863
Race						
AfrAm	.6870004	2.865143	0.24	0.811	-4.974976	6.348977
Race#c.LnNFLw3						
AfrAm	.4114173	1.286671	0.32	0.750	-2.131203	2.954038
Sex	.0731734	.9055375	0.08	0.936	-1.716279	1.862626
w1Age	.0534559	.040771	1.31	0.192	-.0271129	.1340246

Race	0 (omitted)					
PovStat	1.072973	.769992	1.39	0.166	-.4486272	2.594574
TIME_V1SCAN	-.0007991	.0005598	-1.43	0.156	-.0019054	.0003072
w1BMI	.0521946	.0516313	1.01	0.314	-.049836	.1542251
w1TotalD	.0092121	.0377024	0.24	0.807	-.065405	.0838292
w1Albumin	.6517833	1.265677	0.51	0.607	-1.849349	3.152916
w1EosinPct	.1468579	.1657153	0.89	0.377	-.1806165	.4743322
ICV_volM2	2.94e-06	3.25e-06	0.91	0.367	-3.48e-06	9.36e-06
_cons	-8.47381	7.835496	-1.08	0.281	-23.95775	7.010131

```

509 .
510 . save, replace
    file finaldata_imputed_final.dta saved

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

517 .
518 .
519 .
520 .
521 . //ANALYSIS B//
522 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	67
	Average RVI	=	0.0150
	Largest FMI	=	0.0528
	Complete DF	=	57
DF adjustment: Small sample	DF: min	=	50.80
	avg	=	54.26
	max	=	55.06
Model F test: Equal FMI	F(9, 55.0)	=	6.16
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	19.93781	75.93833	0.26	0.794	-132.2556	172.1312
Sex	119.4362	87.43058	1.37	0.177	-55.77449	294.6469
w1Age	-8.862388	4.139197	-2.14	0.037	-17.15871	-.5660685
Race	0 (omitted)					
PovStat	-248.7042	78.10688	-3.18	0.002	-405.2634	-92.14498
TIME_V1SCAN	.0457975	.0588247	0.78	0.440	-.0721524	.1637474
w1BMI	-1.596521	5.159467	-0.31	0.758	-11.93808	8.745037
w1currrdrugs	-162.8414	70.53284	-2.31	0.025	-304.4555	-21.22735
w1SRH	-78.78655	41.44908	-1.90	0.063	-161.866	4.292949
ICV_volM2	.0013377	.0003685	3.63	0.001	.000599	.0020763
_cons	2400.579	465.7878	5.15	0.000	1467.143	3334.016

523 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if s

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     67
                                   Average RVI       =    0.0130
                                   Largest FMI       =    0.0470
                                   Complete DF      =     57
DF adjustment:  Small sample      DF:      min    =    51.40
                                   avg              =    54.39
                                   max              =    55.07
Model F test:      Equal FMI      F(   9,   55.0) =     6.08
Within VCE type:   OLS           Prob > F      =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-1.111244	76.75595	-0.01	0.989	-154.9395	152.717
Sex	44.18365	88.41861	0.50	0.619	-133.0073	221.3746
w1Age	-7.537321	4.182185	-1.80	0.077	-15.91941	.8447687
Race	0 (omitted)					
PovStat	-248.6738	78.89458	-3.15	0.003	-406.8016	-90.546
TIME_V1SCAN	.0774382	.0594441	1.30	0.198	-.0417477	.1966241
w1BMI	-4.580977	5.211035	-0.88	0.383	-15.02518	5.863224
w1currrdrugs	-147.9294	71.13087	-2.08	0.043	-290.7033	-5.155517
w1SRH	-56.37396	41.90792	-1.35	0.184	-140.3723	27.62433
ICV_volM2	.0016186	.0003723	4.35	0.000	.0008723	.0023648
_cons	2354.714	471.0007	5.00	0.000	1410.835	3298.593

524 .

525 . //ANALYSIS C//

526 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if s

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     67
                                   Average RVI       =    0.0027
                                   Largest FMI       =    0.0118
                                   Complete DF      =     57
DF adjustment:  Small sample      DF:      min    =    54.46
                                   avg              =    54.99
                                   max              =    55.10
Model F test:      Equal FMI      F(   9,   55.1) =     1.94
Within VCE type:   OLS           Prob > F      =    0.0651

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.672095	.9606003	1.74	0.087	-.2529467	3.597137
Sex	.654228	1.107658	0.59	0.557	-1.565488	2.873945
w1Age	.0346818	.0522817	0.66	0.510	-.0700908	.1394544
Race	0 (omitted)					
PovStat	-.0069924	.9854927	-0.01	0.994	-1.981894	1.967909
TIME_V1SCAN	-.0011274	.0007395	-1.52	0.133	-.0026095	.0003548
w1BMI	.0884207	.0651351	1.36	0.180	-.0421099	.2189513
w1currrdrugs	.7860412	.8762569	0.90	0.374	-.9704107	2.542493
w1SRH	-1.005078	.5235133	-1.92	0.060	-2.054215	.0440582
ICV_volM2	5.44e-06	4.65e-06	1.17	0.248	-3.89e-06	.0000148
_cons	-5.236261	5.900927	-0.89	0.379	-17.06152	6.589

```

527 .
528 . save, replace
      file finaldata_imputed_final.dta saved

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

535 .
536 .
537 .
538 . //ANALYSIS B//
539 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     96
                                   Average RVI         =    0.0037
                                   Largest FMI          =    0.0221
                                   Complete DF          =     86
DF adjustment:  Small sample      DF:      min      =    81.57
                                   avg                  =    83.67
                                   max                  =    84.04
Model F test:      Equal FMI      F(   9,   84.0)   =     8.40
Within VCE type:   OLS           Prob > F         =    0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-160.8951	70.68714	-2.28	0.025	-301.465	-20.32515
Sex	-56.12398	92.40839	-0.61	0.545	-239.8935	127.6456
w1Age	-1.066883	4.283174	-0.25	0.804	-9.584389	7.450623
Race	0 (omitted)					
PovStat	-78.69411	82.28505	-0.96	0.342	-242.3317	84.94352
TIME_V1SCAN	.0440509	.055382	0.80	0.429	-.0660953	.1541971
w1BMI	9.082712	5.194017	1.75	0.084	-1.24615	19.41157
w1currrdrugs	67.72412	97.3007	0.70	0.488	-125.8531	261.3014
w1SRH	-2.897696	44.16078	-0.07	0.948	-90.7157	84.92031
ICV_volM2	.0019729	.0003125	6.31	0.000	.0013514	.0025944
_cons	1170.859	500.4826	2.34	0.022	175.6012	2166.116

```

540 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     96
                                   Average RVI         =    0.0026
                                   Largest FMI          =    0.0226
                                   Complete DF          =     86
DF adjustment:  Small sample      DF:      min      =    81.50
                                   avg                  =    83.76
                                   max                  =    84.06
Model F test:      Equal FMI      F(   9,   84.1)   =    11.09
Within VCE type:   OLS           Prob > F         =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-141.9562	71.51526	-1.98	0.050	-284.1708	.2584787
Sex	-197.2273	93.44347	-2.11	0.038	-383.0495	-11.40518
w1Age	1.525537	4.335239	0.35	0.726	-7.095492	10.14657
Race	0 (omitted)					
PovStat	-65.7863	83.23254	-0.79	0.432	-231.3046	99.73196
TIME_V1SCAN	.1028118	.0558925	1.84	0.069	-.0083382	.2139618
w1BMI	11.60981	5.257525	2.21	0.030	1.154653	22.06497
w1currrdrugs	19.98699	98.50984	0.20	0.840	-175.9983	215.9723
w1SRH	-34.93767	44.69341	-0.78	0.437	-123.8145	53.93914
ICV_volM2	.0025993	.0003162	8.22	0.000	.0019704	.0032282
_cons	522.7933	506.7082	1.03	0.305	-484.8511	1530.438

541 .

542 . //ANALYSIS C//

543 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2 if s

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 96
Average RVI = 0.0160
Largest FMI = 0.1297
Complete DF = 86
DF: min = 58.27
avg = 81.31
max = 84.03
Model F test: Equal FMI F(9, 83.9) = 0.74
Within VCE type: OLS Prob > F = 0.6733

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.8901593	1.015709	0.88	0.383	-1.129679	2.909997
Sex	-.4669943	1.330442	-0.35	0.726	-3.11295	2.178961
w1Age	.0569055	.0616339	0.92	0.359	-.0656637	.1794747
Race	0 (omitted)					
PovStat	1.695828	1.181829	1.43	0.155	-.6543754	4.046032
TIME_V1SCAN	-.0005387	.0007934	-0.68	0.499	-.0021164	.0010391
w1BMI	.0267428	.0747527	0.36	0.721	-.1219168	.1754025
w1currrdrugs	-.8709826	1.475597	-0.59	0.557	-3.824422	2.082457
w1SRH	-.3477531	.6349672	-0.55	0.585	-1.610459	.9149528
ICV_volM2	3.45e-06	4.49e-06	0.77	0.444	-5.48e-06	.0000124
_cons	-4.55297	7.208257	-0.63	0.529	-18.88819	9.782248

544 .

545 . save, replace

file finaldata_imputed_final.dta saved

546 .

547 . *****INTERACTION by Race*****

548 .
 549 .
 550 .
 551 . //ANALYSIS B//
 552 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH ICV_v

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0021
	Largest FMI	=	0.0169
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	145.18
	avg	=	148.63
	max	=	149.04
Model F test: Equal FMI	F(11, 149.0)	=	12.55
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-141.7513	62.50147	-2.27	0.025	-265.2549	-18.2476
Race						
AfrAm	-414.8302	205.1136	-2.02	0.045	-820.1377	-9.522794
Race#c.LnNFLw3						
AfrAm	148.4327	94.03451	1.58	0.117	-37.38068	334.2461
Sex	5.246742	64.71788	0.08	0.935	-122.6366	133.1301
w1Age	-5.289736	2.981576	-1.77	0.078	-11.18139	.6019151
Race	0 (omitted)					
PovStat	-170.2923	57.29563	-2.97	0.003	-283.5095	-57.07518
TIME_V1SCAN	.0415331	.0404116	1.03	0.306	-.0383218	.121388
w1BMI	2.721197	3.653124	0.74	0.458	-4.497466	9.93986
w1curdrugs	-45.82645	59.50186	-0.77	0.442	-163.4283	71.77538
w1SRH	-36.21542	30.60267	-1.18	0.239	-96.68692	24.25608
ICV_volM2	.001673	.0002378	7.03	0.000	.0012031	.0021429
_cons	2055.745	352.6015	5.83	0.000	1358.996	2752.494

553 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH ICV_v

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0036
	Largest FMI	=	0.0291
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	140.79
	avg	=	148.23
	max	=	149.03
Model F test: Equal FMI	F(11, 149.0)	=	15.16
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-116.0375	64.02369	-1.81	0.072	-242.5493	10.47419
Race						
AfrAm	-356.2282	210.1231	-1.70	0.092	-771.4354	58.97912
Race#c.LnNFLw3						
AfrAm	119.9964	96.32157	1.25	0.215	-70.33638	310.3291
Sex	-97.62209	66.30947	-1.47	0.143	-228.6511	33.40695

w1Age	-3.82984	3.05384	-1.25	0.212	-9.86428	2.204599
Race	0	(omitted)				
PovStat	-166.5269	58.68468	-2.84	0.005	-282.4887	-50.56501
TIME_V1SCAN	.0837417	.0414244	2.02	0.045	.0018842	.1655992
w1BMI	3.067963	3.741393	0.82	0.414	-4.325105	10.46103
w1currdrugs	-61.40198	61.31691	-1.00	0.318	-182.6229	59.8189
w1SRH	-50.24106	31.36095	-1.60	0.111	-112.2115	11.72934
ICV_volM2	.0021758	.0002436	8.93	0.000	.0016945	.0026572
_cons	1624.432	361.1352	4.50	0.000	910.8219	2338.043

554 .

555 . //ANALYSIS C//

556 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Race Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	163
	Average RVI	=	0.0072
	Largest FMI	=	0.0756
	Complete DF	=	151
DF adjustment: Small sample	DF: min	=	117.18
	avg	=	146.21
	max	=	149.04
Model F test: Equal FMI	F(11, 149.0)	=	1.33
Within VCE type: OLS	Prob > F	=	0.2130

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.9305506	.84923	1.10	0.275	-.747538	2.608639
Race						
AfrAm	.2653347	2.786727	0.10	0.924	-5.241271	5.77194
Race#c.LnNFLw3						
AfrAm	.4984934	1.277809	0.39	0.697	-2.026477	3.023464
Sex	.282963	.8792868	0.32	0.748	-1.454517	2.020443
w1Age	.0545651	.0405291	1.35	0.180	-.0255217	.1346519
Race	0	(omitted)				
PovStat	.9599106	.7796134	1.23	0.220	-.5806603	2.500482
TIME_V1SCAN	-.0008023	.0005492	-1.46	0.146	-.0018876	.000283
w1BMI	.0444857	.0496784	0.90	0.372	-.0536815	.1426529
w1currdrugs	.2463729	.8324521	0.30	0.768	-1.402228	1.894974
w1SRH	-.5670996	.4156818	-1.36	0.175	-1.388491	.2542919
ICV_volM2	3.17e-06	3.23e-06	0.98	0.329	-3.22e-06	9.55e-06
_cons	-3.999426	4.7935	-0.83	0.405	-13.47159	5.472734

557 .

558 . save, replace
file finaldata_imputed_final.dta saved

559 .

560 .

561 .

562 .

563 .

564 . capture log close