



```

1 .
2 .
3 .
4 . //////////////////////////////////TABLES 3 AND S4////////////////////////////////////
5 .
6 . *****TABLE 3: LnNFLw3, MODELS 1 AND 2*****
7 .
8 . **ANALYSES A-C, TOTAL POPULATION**
9 .
10 . **Model 1**
11 .
12 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear
13 .
14 . //ANALYSIS A//
15 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ,beta

```

Source	SS	df	MS	Number of obs	=	213
Model	1.3400e+12	6	2.2334e+11	F(6, 206)	=	27.13
Residual	1.6955e+12	206	8.2307e+09	Prob > F	=	0.0000
				R-squared	=	0.4414
				Adj R-squared	=	0.4252
Total	3.0355e+12	212	1.4319e+10	Root MSE	=	90723

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-4981.216	12124.39	-0.41	0.682	-.0248201
Sex	134955.7	12754.88	10.58	0.000	.5619351
w1Age	-1844.292	810.5277	-2.28	0.024	-.1412264
Race	-69558.16	13288.05	-5.23	0.000	-.2878153
PovStat	-4144.574	14731.18	-0.28	0.779	-.0161849
TIME_V1SCAN	-22.59913	9.89046	-2.28	0.023	-.1266663
_cons	1197258	54086.08	22.14	0.000	.

```

16 . reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ,beta

```

Source	SS	df	MS	Number of obs	=	213
Model	4.2115e+11	6	7.0192e+10	F(6, 206)	=	28.57
Residual	5.0616e+11	206	2.4571e+09	Prob > F	=	0.0000
				R-squared	=	0.4542
				Adj R-squared	=	0.4383
Total	9.2731e+11	212	4.3741e+09	Root MSE	=	49569

GM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-7038.028	6624.468	-1.06	0.289	-.063449
Sex	68737.83	6968.95	9.86	0.000	.5178412
w1Age	-1686.702	442.8522	-3.81	0.000	-.2336846
Race	-48264.91	7260.259	-6.65	0.000	-.3613294
PovStat	-1474.801	8048.749	-0.18	0.855	-.0104201
TIME_V1SCAN	-10.26623	5.403902	-1.90	0.059	-.1041085
_cons	729738.2	29551.29	24.69	0.000	.

17 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ,beta

Source	SS	df	MS	Number of obs	=	213
Model	2.1155e+11	6	3.5259e+10	F(6, 206)	=	18.38
Residual	3.9525e+11	206	1.9187e+09	Prob > F	=	0.0000
				R-squared	=	0.3486
				Adj R-squared	=	0.3297
Total	6.0680e+11	212	2.8623e+09	Root MSE	=	43803

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-730.6776	5853.843	-0.12	0.901	-.0081431
Sex	55748.93	6158.252	9.05	0.000	.5191913
w1Age	-515.5662	391.3352	-1.32	0.189	-.0883012
Race	-19191.71	6415.673	-2.99	0.003	-.1776133
PovStat	-6111.101	7112.437	-0.86	0.391	-.053376
TIME_V1SCAN	-10.54662	4.775266	-2.21	0.028	-.1322144
_cons	460690.7	26113.59	17.64	0.000	.

18 .

19 . //ANALYSIS B//

20 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 ,beta

Source	SS	df	MS	Number of obs	=	213
Model	15577401.3	7	2225343.05	F(7, 205)	=	26.01
Residual	17542101.3	205	85571.2259	Prob > F	=	0.0000
				R-squared	=	0.4703
				Adj R-squared	=	0.4523
Total	33119502.6	212	156224.069	Root MSE	=	292.53

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-115.243	39.0945	-2.95	0.004	-.1738436
Sex	-28.36787	54.04536	-0.52	0.600	-.03576
w1Age	-3.533937	2.613485	-1.35	0.178	-.0819259
Race	-60.35169	46.28436	-1.30	0.194	-.0756017
PovStat	-98.11719	47.51394	-2.07	0.040	-.1159984
TIME_V1SCAN	-.009188	.0321556	-0.29	0.775	-.0155908
ICV_volM2	.0017547	.0001975	8.88	0.000	.6411886
_cons	1898.465	304.9054	6.23	0.000	.

21 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 ,beta

Source	SS	df	MS	Number of obs	=	213
Model	19243178.6	7	2749025.52	F(7, 205)	=	29.79
Residual	18916674.5	205	92276.461	Prob > F	=	0.0000
				R-squared	=	0.5043
				Adj R-squared	=	0.4874
Total	38159853.1	212	179999.307	Root MSE	=	303.77

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-75.72912	40.59731	-1.87	0.064	-.1064255
Sex	-82.11941	56.12288	-1.46	0.145	-.0964396
w1Age	-3.093175	2.713949	-1.14	0.256	-.0668044
Race	-56.02866	48.06356	-1.17	0.245	-.0653869
PovStat	-77.39229	49.3404	-1.57	0.118	-.0852399
TIME_V1SCAN	.0117322	.0333917	0.35	0.726	.0185466
ICV_volM2	.002144	.0002051	10.45	0.000	.7298842
_cons	1561.142	316.6261	4.93	0.000	.

```

22 .
23 . //ANALYSIS C//
24 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 , beta

```

Source	SS	df	MS	Number of obs	=	209
Model	143.0494	7	20.4356285	F(7, 201)	=	1.31
Residual	3131.43476	201	15.5792774	Prob > F	=	0.2463
				R-squared	=	0.0437
				Adj R-squared	=	0.0104
Total	3274.48416	208	15.7427123	Root MSE	=	3.9471

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	.3321878	.5401326	0.62	0.539	.0490727
Sex	.1197849	.7339493	0.16	0.871	.0150393
w1Age	.0769581	.0359844	2.14	0.034	.1762324
Race	.6094322	.6320866	0.96	0.336	.0760177
PovStat	.1219654	.6506785	0.19	0.852	.0143805
TIME_V1SCAN	-.0001764	.0004348	-0.41	0.685	-.030088
ICV_volM2	1.50e-06	2.67e-06	0.56	0.576	.0546972
_cons	-1.58836	4.130742	-0.38	0.701	.

```

25 .
26 .
27 .
28 . **Model 2: BMI-Adjusted**
29 .
30 . use finaldata_imputed,clear

31 .
32 .
33 . //ANALYSIS A//
34 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0121
	Largest FMI	=	0.0912
	Complete DF	=	205
DF adjustment: Small sample	DF: min	=	137.33
	avg	=	193.23
	max	=	203.01
Model F test: Equal FMI	F(7, 202.6)	=	22.99
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-3389.052	12312.63	-0.28	0.783	-27666.64	20888.54
Sex	136404.9	12907.72	10.57	0.000	110954.4	161855.5
w1Age	-1888.133	813.161	-2.32	0.021	-3491.46	-284.8053
Race	-69907.85	13308.55	-5.25	0.000	-96148.64	-43667.06
PovStat	-3626.597	14760.62	-0.25	0.806	-32730.38	25477.18
TIME_V1SCAN	-22.20774	9.914138	-2.24	0.026	-41.75569	-2.659782
w1BMI	780.9548	1024.295	0.76	0.447	-1244.473	2806.383
_cons	1169882	64954.31	18.01	0.000	1041765	1297999

35 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0174
	Largest FMI	=	0.1263
	Complete DF	=	205
DF adjustment: Small sample	DF: min	=	109.45
	avg	=	188.76
	max	=	203.01
Model F test: Equal FMI	F(7, 202.2)	=	24.26
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5748.345	6719.133	-0.86	0.393	-18997.06	7500.368
Sex	69926.91	7040.027	9.93	0.000	56045.83	83807.98
w1Age	-1722.53	443.4523	-3.88	0.000	-2596.895	-848.1642
Race	-48545.68	7258.966	-6.69	0.000	-62858.41	-34232.96
PovStat	-1047.739	8049.065	-0.13	0.897	-16918.23	14822.75
TIME_V1SCAN	-9.94249	5.408114	-1.84	0.067	-20.60586	.7208757
w1BMI	637.0088	568.6576	1.12	0.265	-489.9997	1764.017
_cons	707406.5	35597.44	19.87	0.000	637176.6	777636.4

36 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0087
	Largest FMI	=	0.0672
	Complete DF	=	205
DF adjustment: Small sample	DF: min	=	158.51
	avg	=	196.42
	max	=	203.00
Model F test: Equal FMI	F(7, 202.8)	=	15.54
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-425.4224	5948.619	-0.07	0.943	-12154.57	11303.72
Sex	56013.72	6240.532	8.98	0.000	43709.07	68318.37
w1Age	-523.688	393.1235	-1.33	0.184	-1298.818	251.4417
Race	-19259.48	6433.041	-2.99	0.003	-31943.63	-6575.325
PovStat	-6017.242	7136.498	-0.84	0.400	-20088.41	8053.924
TIME_V1SCAN	-10.47862	4.792291	-2.19	0.030	-19.92768	-1.029563
w1BMI	145.7654	489.2822	0.30	0.766	-820.5881	1112.119
_cons	455580.6	31302.35	14.55	0.000	393847.1	517314.2

37 .
 38 . //ANALYSIS B//
 39 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0232
	Largest FMI	=	0.1862
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	74.41
	avg	=	186.74
	max	=	201.96
Model F test: Equal FMI	F(8, 200.8)	=	22.06
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-114.912	39.80022	-2.89	0.004	-193.3925	-36.43151
Sex	-28.01044	54.90005	-0.51	0.610	-136.2647	80.24383
w1Age	-3.54018	2.626396	-1.35	0.179	-8.718876	1.638515
Race	-60.78022	46.46422	-1.31	0.192	-152.3976	30.83717
PovStat	-98.25743	47.67886	-2.06	0.041	-192.2697	-4.245177
TIME_V1SCAN	-.0090553	.0322594	-0.28	0.779	-.0726637	.0545531
w1BMI	.1220003	3.481604	0.04	0.972	-6.814617	7.058618
ICV_volM2	.001753	.0001984	8.84	0.000	.0013617	.0021442
_cons	1896.691	323.1714	5.87	0.000	1259.339	2534.044

40 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0253
	Largest FMI	=	0.2007
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	68.11
	avg	=	185.93
	max	=	201.95
Model F test: Equal FMI	F(8, 200.6)	=	25.23
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-74.3155	41.33851	-1.80	0.074	-155.8298	7.198816
Sex	-80.34781	57.01562	-1.41	0.160	-192.7741	32.07847
w1Age	-3.130175	2.727121	-1.15	0.252	-8.507482	2.247132
Race	-56.888	48.24956	-1.18	0.240	-152.0258	38.24982
PovStat	-77.18143	49.50466	-1.56	0.121	-174.7937	20.43087
TIME_V1SCAN	.0120998	.0334962	0.36	0.718	-.0539474	.078147
w1BMI	.664474	3.643313	0.18	0.856	-6.605427	7.934375
ICV_volM2	.0021402	.000206	10.39	0.000	.0017339	.0025464
_cons	1543.062	335.7266	4.60	0.000	880.9358	2205.188

```

41 .
42 . //ANALYSIS C//
43 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     209
                                   Average RVI        =     0.0489
                                   Largest FMI         =     0.3373
                                   Complete DF         =     200
DF adjustment:  Small sample      DF:      min     =     32.76
                                   avg               =    176.65
                                   max               =    197.87
Model F test:      Equal FMI      F(   8, 193.5) =     1.11
Within VCE type:   OLS           Prob > F       =     0.3592

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.3676558	.5495713	0.67	0.504	-.7162044	1.451516
Sex	.1671199	.7465598	0.22	0.823	-1.305228	1.639467
w1Age	.0758747	.0361486	2.10	0.037	.0045882	.1471613
Race	.602223	.6339139	0.95	0.343	-.6478723	1.852318
PovStat	.138031	.6523179	0.21	0.833	-1.148357	1.424419
TIME_V1SCAN	-.0001694	.000436	-0.39	0.698	-.0010291	.0006903
w1BMI	.0192634	.0515334	0.37	0.711	-.0856107	.1241375
ICV_volM2	1.44e-06	2.68e-06	0.54	0.592	-3.85e-06	6.72e-06
_cons	-2.19639	4.421165	-0.50	0.620	-10.92117	6.528393

```

44 .
45 . save, replace
    file finaldata_imputed.dta saved
46 .
47 . *****MALES*****
48 .
49 . **Model 1**
50 .
51 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear
52 .
53 . //ANALYSIS A//
54 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN if Sex==2,beta
    note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	95
Model	2.7085e+11	5	5.4171e+10	F(5, 89)	=	4.88
Residual	9.8848e+11	89	1.1107e+10	Prob > F	=	0.0005
				R-squared	=	0.2151
				Adj R-squared	=	0.1710
Total	1.2593e+12	94	1.3397e+10	Root MSE	=	1.1e+05

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-13942.19	18869.9	-0.74	0.462	-.0781548
Sex	0	(omitted)			.
w1Age	-2091.126	1388.237	-1.51	0.136	-.1616415
Race	-89298.15	23262.47	-3.84	0.000	-.3815363
PovStat	10509.56	27268.38	0.39	0.701	.0391005
TIME_V1SCAN	-35.59424	16.95326	-2.10	0.039	-.202798
_cons	1535369	89022.09	17.25	0.000	.

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

Source	SS	df	MS	Number of obs	=	95
Model	1.2328e+11	5	2.4656e+10	F(5, 89)	=	7.71
Residual	2.8446e+11	89	3.1962e+09	Prob > F	=	0.0000
				R-squared	=	0.3023
				Adj R-squared	=	0.2632
Total	4.0774e+11	94	4.3377e+09	Root MSE	=	56535

GM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-9941.73	10122.73	-0.98	0.329	-.0979411
Sex	0	(omitted)			.
w1Age	-2251.474	744.7178	-3.02	0.003	-.3058565
Race	-58710.21	12479.12	-4.70	0.000	-.4408445
PovStat	5974.411	14628.08	0.41	0.684	.0390635
TIME_V1SCAN	-17.68759	9.094548	-1.94	0.055	-.177105
_cons	921321.8	47755.76	19.29	0.000	.

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

Source	SS	df	MS	Number of obs	=	95
Model	3.5966e+10	5	7.1931e+09	F(5, 89)	=	2.80
Residual	2.2854e+11	89	2.5679e+09	Prob > F	=	0.0214
				R-squared	=	0.1360
				Adj R-squared	=	0.0874
Total	2.6451e+11	94	2.8139e+09	Root MSE	=	50674

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-6431.106	9073.38	-0.71	0.480	-.0786613
Sex	0	(omitted)			.
w1Age	-409.0684	667.5183	-0.61	0.542	-.0689953
Race	-28487.26	11185.5	-2.55	0.013	-.2655798
PovStat	-3303.478	13111.69	-0.25	0.802	-.0268176
TIME_V1SCAN	-16.25369	8.151782	-1.99	0.049	-.202063
_cons	601303.6	42805.27	14.05	0.000	.

57 .

58 .

59 . //ANALYSIS B//

60 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if Sex==2,beta
note: **Sex** omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	95
Model	9008502.37	6	1501417.06	F(6, 88)	=	13.84
Residual	9546505.14	88	108483.013	Prob > F	=	0.0000
				R-squared	=	0.4855
				Adj R-squared	=	0.4504
Total	18555007.5	94	197393.697	Root MSE	=	329.37

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-154.1592	59.15658	-2.61	0.011	-.2251306
Sex	0 (omitted)				.
w1Age	-4.341722	4.339255	-1.00	0.320	-.0874329
Race	26.6877	80.44855	0.33	0.741	.0297061
PovStat	-176.0936	85.26756	-2.07	0.042	-.1706795
TIME_V1SCAN	-.0343596	.0539102	-0.64	0.526	-.0510002
ICV_volM2	.0020748	.0003026	6.86	0.000	.6006324
_cons	1533.561	579.2925	2.65	0.010	.

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

Source	SS	df	MS	Number of obs	=	95
Model	10103109.5	6	1683851.58	F(6, 88)	=	14.55
Residual	10183368.7	88	115720.099	Prob > F	=	0.0000
				R-squared	=	0.4980
				Adj R-squared	=	0.4638
Total	20286478.2	94	215813.598	Root MSE	=	340.18

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-109.0851	61.09794	-1.79	0.078	-.1523553
Sex	0 (omitted)				.
w1Age	-4.98442	4.481658	-1.11	0.269	-.0959964
Race	13.72325	83.08866	0.17	0.869	.0146089
PovStat	-160.5514	88.06582	-1.82	0.072	-.1488261
TIME_V1SCAN	-.0090344	.0556794	-0.16	0.871	-.0128248
ICV_volM2	.0023636	.0003125	7.56	0.000	.654403
_cons	1294.411	598.3033	2.16	0.033	.

62 .

63 . //ANALYSIS C//

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

Source	SS	df	MS	Number of obs	=	93
Model	17.3508512	6	2.89180853	F(6, 86)	=	0.19
Residual	1317.44955	86	15.3191808	Prob > F	=	0.9792
				R-squared	=	0.0130
				Adj R-squared	=	-0.0559
Total	1334.8004	92	14.5087	Root MSE	=	3.914

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-.1117761	.7232794	-0.15	0.878	-.0187745
Sex	0 (omitted)				.
w1Age	.0316926	.053391	0.59	0.554	.0736853
Race	.1883807	.9614687	0.20	0.845	.0244433
PovStat	-.6016125	1.026998	-0.59	0.560	-.0685141
TIME_V1SCAN	.0000173	.0006409	0.03	0.978	.0030335
ICV_volM2	-1.02e-06	3.60e-06	-0.28	0.778	-.0346103
_cons	6.566197	6.90009	0.95	0.344	.


```

65 .
66 .
67 . **Model 2**
68 .
69 . use finaldata_imputed,clear

70 .
71 .
72 . //ANALYSIS A//
73 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Sex==2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     95
                                   Average RVI        =     0.0085
                                   Largest FMI        =     0.0512
                                   Complete DF       =     88
DF adjustment:  Small sample      DF:      min     =     78.10
                                   avg               =     84.64
                                   max               =     86.03
Model F test:      Equal FMI      F(   6,   86.0) =     4.18
Within VCE type:   OLS           Prob > F       =     0.0010

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-13071.05	18909.13	-0.69	0.491	-50661.44	24519.34
Sex	0 (omitted)					
w1Age	-2373.466	1422.182	-1.67	0.099	-5200.657	453.7262
Race	-92003.02	23467.33	-3.92	0.000	-138655.9	-45350.17
PovStat	12503.04	27387.95	0.46	0.649	-41942.26	66948.33
TIME_V1SCAN	-36.73238	17.01	-2.16	0.034	-70.5472	-2.917564
w1BMI	2020.28	2174.079	0.93	0.356	-2307.888	6348.448
_cons	1493681	99767.36	14.97	0.000	1295303	1692059

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     95
                                   Average RVI        =     0.0138
                                   Largest FMI        =     0.0804
                                   Complete DF       =     88
DF adjustment:  Small sample      DF:      min     =     71.41
                                   avg               =     83.53
                                   max               =     86.01
Model F test:      Equal FMI      F(   6,   85.9) =     6.66
Within VCE type:   OLS           Prob > F       =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-9325.69	10100.67	-0.92	0.358	-29405.45	10754.07
Sex	0 (omitted)					
w1Age	-2458.604	760.1477	-3.23	0.002	-3969.759	-947.4492
Race	-60690.18	12546.15	-4.84	0.000	-85632.72	-35747.64
PovStat	7402.92	14626.98	0.51	0.614	-21674.49	36480.33
TIME_V1SCAN	-18.48961	9.083827	-2.04	0.045	-36.54767	-.431544
w1BMI	1472.778	1177.947	1.25	0.215	-875.7512	3821.306
_cons	891041.3	53410.02	16.68	0.000	784827.9	997254.7

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0101
	Largest FMI	=	0.0671
	Complete DF	=	88
DF adjustment: Small sample	DF: min	=	74.55
	avg	=	84.11
	max	=	86.01
Model F test: Equal FMI	F(6, 86.0)	=	2.33
Within VCE type: OLS	Prob > F	=	0.0389

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6191.076	9122.486	-0.68	0.499	-24325.97	11943.82
Sex	0	(omitted)				
w1Age	-481.787	686.839	-0.70	0.485	-1847.205	883.6307
Race	-29178.24	11318.25	-2.58	0.012	-51678.44	-6678.053
PovStat	-2757.278	13216.58	-0.21	0.835	-29030.9	23516.35
TIME_V1SCAN	-16.57417	8.208053	-2.02	0.047	-32.89125	-.2570945
w1BMI	525.457	1057.405	0.50	0.621	-1581.208	2632.122
_cons	590382	48185.96	12.25	0.000	494564.8	686199.2

76 .

77 .

78 . //ANALYSIS B//

79 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0403
	Largest FMI	=	0.2405
	Complete DF	=	87
DF adjustment: Small sample	DF: min	=	37.09
	avg	=	78.68
	max	=	84.98
Model F test: Equal FMI	F(7, 84.3)	=	11.33
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-152.8143	59.44763	-2.57	0.012	-271.0124	-34.61608
Sex	0	(omitted)				
w1Age	-4.695945	4.479479	-1.05	0.297	-13.6037	4.211813
Race	20.67702	81.97659	0.25	0.801	-142.3362	183.6903
PovStat	-174.0383	85.96821	-2.02	0.046	-344.9669	-3.109621
TIME_V1SCAN	-.0363166	.0543822	-0.67	0.506	-.1444461	.0718128
w1BMI	2.814903	7.553873	0.37	0.712	-12.48945	18.11926
ICV_volM2	.0020603	.0003056	6.74	0.000	.0014527	.0026679
_cons	1498.593	590.0933	2.54	0.013	325.2354	2671.952

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     95
                                   Average RVI         =    0.0385
                                   Largest FMI         =    0.2271
                                   Complete DF         =     87
DF adjustment:  Small sample      DF:      min      =    39.21
                                   avg                  =    78.95
                                   max                  =    85.04
Model F test:      Equal FMI      F(   7,   84.4)   =    12.12
Within VCE type:   OLS           Prob > F       =    0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-106.6483	61.18784	-1.74	0.085	-228.3074	15.01078
Sex	0 (omitted)					
w1Age	-5.83344	4.605214	-1.27	0.209	-14.99089	3.324009
Race	1.587025	84.45828	0.02	0.985	-166.3696	169.5436
PovStat	-154.8648	88.42783	-1.75	0.083	-330.6817	20.95205
TIME_V1SCAN	-.0132915	.0559536	-0.24	0.813	-.1245448	.0979619
w1BMI	6.270742	7.715864	0.81	0.421	-9.333332	21.87482
ICV_volM2	.0023351	.0003146	7.42	0.000	.0017095	.0029606
_cons	1212.647	606.8757	2.00	0.049	5.943328	2419.351

81 .

82 . //ANALYSIS C//

83 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==2

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     93
                                   Average RVI         =    0.2288
                                   Largest FMI         =    0.6769
                                   Complete DF         =     85
DF adjustment:  Small sample      DF:      min      =     7.97
                                   avg                  =    70.94
                                   max                  =    82.97
Model F test:      Equal FMI      F(   7,   71.5)   =     0.21
Within VCE type:   OLS           Prob > F       =    0.9813

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.1273497	.7203547	-0.18	0.860	-1.560114	1.305414
Sex	0 (omitted)					
w1Age	.0400171	.0554504	0.72	0.473	-.0704253	.1504596
Race	.3229853	.987053	0.33	0.744	-1.642414	2.288385
PovStat	-.6620259	1.03167	-0.64	0.523	-2.714273	1.390221
TIME_V1SCAN	.0000587	.0006433	0.09	0.928	-.0012211	.0013384
w1BMI	-.0686115	.1274663	-0.54	0.605	-.3627143	.2254913
ICV_volM2	-7.01e-07	3.63e-06	-0.19	0.847	-7.92e-06	6.52e-06
_cons	7.488988	7.083298	1.06	0.294	-6.612608	21.59058

```

84 .
85 . save, replace
    file finaldata_imputed.dta saved
86 .
87 .
88 .
89 .
90 .
91 . *****FEMALES*****
92 .
93 . **Model 1**
94 .
95 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear
96 .
97 . //ANALYSIS A//
98 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN if Sex==1,beta
    note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	118
Model	1.3323e+11	5	2.6647e+10	F(5, 112)	=	4.48
Residual	6.6658e+11	112	5.9516e+09	Prob > F	=	0.0009
				R-squared	=	0.1666
				Adj R-squared	=	0.1294
Total	7.9982e+11	117	6.8360e+09	Root MSE	=	77147

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	7439.995	16556.35	0.45	0.654	.0491068
Sex	0 (omitted)				.
w1Age	-1999.241	968.9494	-2.06	0.041	-.2265335
Race	-55805.95	15212.09	-3.67	0.000	-.3357892
PovStat	-15778.06	16881.21	-0.93	0.352	-.0930862
TIME_V1SCAN	-9.46051	11.76166	-0.80	0.423	-.0780659
_cons	1282365	57273.3	22.39	0.000	.

```

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

```

Source	SS	df	MS	Number of obs	=	118
Model	6.4319e+10	5	1.2864e+10	F(5, 112)	=	6.96
Residual	2.0697e+11	112	1.8479e+09	Prob > F	=	0.0000
				R-squared	=	0.2371
				Adj R-squared	=	0.2030
Total	2.7129e+11	117	2.3187e+09	Root MSE	=	42987

GM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-4220.428	9225.455	-0.46	0.648	-.0478307
Sex	0 (omitted)				.
w1Age	-1369.391	539.9138	-2.54	0.013	-.2664258
Race	-41606.22	8476.412	-4.91	0.000	-.429859
PovStat	-7939.774	9406.476	-0.84	0.400	-.0804306
TIME_V1SCAN	-3.018902	6.553783	-0.46	0.646	-.0427738
_cons	761962.2	31913.57	23.88	0.000	.

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

Source	SS	df	MS	Number of obs	=	118
Model	1.4523e+10	5	2.9047e+09	F(5, 112)	=	2.07
Residual	1.5703e+11	112	1.4021e+09	Prob > F	=	0.0742
				R-squared	=	0.0847
				Adj R-squared	=	0.0438
Total	1.7156e+11	117	1.4663e+09	Root MSE	=	37445

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	9464.468	8035.906	1.18	0.241	.1348823
Sex	0 (omitted)				.
w1Age	-846.5553	470.2962	-1.80	0.075	-.2071155
Race	-11835.77	7383.446	-1.60	0.112	-.1537704
PovStat	-7963.77	8193.586	-0.97	0.333	-.1014472
TIME_V1SCAN	-5.258754	5.708724	-0.92	0.359	-.0936957
_cons	491393.4	27798.57	17.68	0.000	.

101 .
 102 .
 103 . //ANALYSIS B//
 104 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if Sex==1,beta
 note: **Sex** omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	118
Model	3268831.35	6	544805.225	F(6, 111)	=	8.68
Residual	6964316.48	111	62741.5899	Prob > F	=	0.0000
				R-squared	=	0.3194
				Adj R-squared	=	0.2826
Total	10233147.8	117	87462.802	Root MSE	=	250.48

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-5.467951	54.00083	-0.10	0.920	-.0100898
Sex	0 (omitted)				.
w1Age	-5.577494	3.153189	-1.77	0.080	-.1766839
Race	-123.5938	52.51341	-2.35	0.020	-.2079091
PovStat	-46.07589	54.96867	-0.84	0.404	-.0759969
TIME_V1SCAN	.0131579	.0382497	0.34	0.731	.0303546
ICV_volM2	.0013145	.0002565	5.13	0.000	.4411006
_cons	2257.655	403.1755	5.60	0.000	.

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

Source	SS	df	MS	Number of obs	=	118
Model	5022145.99	6	837024.331	F(6, 111)	=	11.70
Residual	7940500.86	111	71536.0438	Prob > F	=	0.0000
				R-squared	=	0.3874
				Adj R-squared	=	0.3543
Total	12962646.9	117	110791.853	Root MSE	=	267.46

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	17.67871	57.6614	0.31	0.760	.0289846
Sex	0 (omitted)				.
w1Age	-3.865998	3.366935	-1.15	0.253	-.1088121
Race	-105.2985	56.07314	-1.88	0.063	-.1573827
PovStat	-17.20503	58.69484	-0.29	0.770	-.0252136
TIME_V1SCAN	.0266185	.0408425	0.65	0.516	.0545605
ICV_volM2	.0018443	.0002739	6.73	0.000	.5498929
_cons	1648.555	430.5057	3.83	0.000	.

```

106 .
107 . //ANALYSIS C//
108 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	116
Model	201.295309	6	33.5492182	F(6, 109)	=	2.12
Residual	1726.56254	109	15.8400233	Prob > F	=	0.0569
				R-squared	=	0.1044
				Adj R-squared	=	0.0551
Total	1927.85785	115	16.7639813	Root MSE	=	3.98

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	1.036071	.8768778	1.18	0.240	.1346558
Sex	0 (omitted)				.
w1Age	.1038047	.0502776	2.06	0.041	.2354836
Race	1.038382	.8479202	1.22	0.223	.1261385
PovStat	1.070467	.89166	1.20	0.233	.1274088
TIME_V1SCAN	-.0005077	.0006102	-0.83	0.407	-.085217
ICV_volM2	4.61e-06	4.08e-06	1.13	0.261	.1126294
_cons	-9.411623	6.457405	-1.46	0.148	.

```

109 .
110 .
111 . **Model 2**
112 .
113 . use finaldata_imputed,clear

114 .
115 .
116 . //ANALYSIS A//
117 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Sex==1

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0086
	Largest FMI	=	0.0569
	Complete DF	=	111
DF adjustment: Small sample	DF: min	=	95.83
	avg	=	106.60
	max	=	109.05
Model F test: Equal FMI	F(6 , 108.9)	=	3.83
Within VCE type: OLS	Prob > F	=	0.0017

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	11664.53	17242.98	0.68	0.500	-22512.76	45841.82
Sex	0 (omitted)					
w1Age	-2042.299	970.9964	-2.10	0.038	-3966.787	-117.8112
Race	-55634.88	15226.41	-3.65	0.000	-85813.03	-25456.73
PovStat	-15069.95	16913.38	-0.89	0.375	-48591.55	18451.65
TIME_V1SCAN	-8.022996	11.88621	-0.67	0.501	-31.58147	15.53547
w1BMI	942.2224	1063.187	0.89	0.378	-1168.237	3052.681
_cons	1242711	72695.35	17.09	0.000	1098587	1386835

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0112
	Largest FMI	=	0.0714
	Complete DF	=	111
DF adjustment: Small sample	DF: min	=	91.00
	avg	=	105.71
	max	=	109.04
Model F test: Equal FMI	F(6, 108.9)	=	6.03
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-962.4555	9583.947	-0.10	0.920	-19959.37	18034.45
Sex	0 (omitted)					
w1Age	-1402.329	539.2793	-2.60	0.011	-2471.171	-333.4868
Race	-41469.05	8455.69	-4.90	0.000	-58227.94	-24710.16
PovStat	-7386.172	9391.892	-0.79	0.433	-26000.52	11228.18
TIME_V1SCAN	-1.909788	6.603058	-0.29	0.773	-14.99721	11.17763
w1BMI	727.7466	594.6157	1.22	0.224	-453.3844	1908.878
_cons	731318.6	40449.87	18.08	0.000	651115.9	811521.2

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0054
	Largest FMI	=	0.0370
	Complete DF	=	111
DF adjustment: Small sample	DF: min	=	101.81
	avg	=	107.69
	max	=	109.05
Model F test: Equal FMI	F(6, 109.0)	=	1.76
Within VCE type: OLS	Prob > F	=	0.1142

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10732.89	8379.69	1.28	0.203	-5875.967	27341.75
Sex	0 (omitted)					
w1Age	-859.6054	472.3231	-1.82	0.072	-1795.733	76.52207
Race	-11786.88	7407.452	-1.59	0.114	-26468.14	2894.38
PovStat	-7756.315	8228.514	-0.94	0.348	-24064.88	8552.246
TIME_V1SCAN	-4.828531	5.780349	-0.84	0.405	-16.28507	6.628005
w1BMI	282.092	512.1829	0.55	0.583	-733.8436	1298.028
_cons	479529.5	35258.03	13.60	0.000	409636.8	549422.2

```

120 .
121 .
122 .
123 . //ANALYSIS B//
124 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0080
                                   Largest FMI         =     0.0549
                                   Complete DF         =     110
DF adjustment:  Small sample      DF:      min      =     95.65
                                   avg                  =     106.35
                                   max                  =     108.05
Model F test:      Equal FMI      F(   7, 108.0)   =     7.36
Within VCE type:   OLS            Prob > F         =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.920339	56.52328	0.03	0.973	-110.1253	113.9659
Sex	0 (omitted)					
w1Age	-5.662778	3.1693	-1.79	0.077	-11.94488	.6193188
Race	-124.2706	52.71846	-2.36	0.020	-228.7674	-19.77377
PovStat	-45.15114	55.20893	-0.82	0.415	-154.5842	64.28196
TIME_V1SCAN	.0154596	.0387215	0.40	0.690	-.0612938	.0922129
w1BMI	1.580283	3.475508	0.45	0.650	-5.318872	8.479439
ICV_volM2	.0013017	.0002588	5.03	0.000	.0007888	.0018147
_cons	2209.116	419.2316	5.27	0.000	1378.107	3040.126

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0107
                                   Largest FMI         =     0.0733
                                   Complete DF         =     110
DF adjustment:  Small sample      DF:      min      =     89.61
                                   avg                  =     105.55
                                   max                  =     108.05
Model F test:      Equal FMI      F(   7, 107.9)   =     9.84
Within VCE type:   OLS            Prob > F         =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	21.17232	60.42983	0.35	0.727	-98.61894	140.9636
Sex	0 (omitted)					
w1Age	-3.910295	3.386482	-1.15	0.251	-10.62287	2.802284
Race	-105.7767	56.32989	-1.88	0.063	-217.4317	5.87842
PovStat	-16.88906	58.99684	-0.29	0.775	-133.8305	100.0524
TIME_V1SCAN	.0276748	.0413806	0.67	0.505	-.0543495	.1096991
w1BMI	.7271053	3.747972	0.19	0.847	-6.719334	8.173545
ICV_volM2	.0018377	.0002765	6.65	0.000	.0012896	.0023857
_cons	1627.584	448.4437	3.63	0.000	738.6445	2516.524


```

126 .
127 . //ANALYSIS C//
128 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     116
                                   Average RVI         =     0.0021
                                   Largest FMI         =     0.0054
                                   Complete DF         =     108
DF adjustment:  Small sample      DF:      min      =    105.46
                                   avg                  =    105.86
                                   max                  =    105.98
Model F test:      Equal FMI      F(   7, 106.0)   =     2.14
Within VCE type:   OLS            Prob > F        =     0.0455

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.392058	.9060765	1.54	0.127	-.4043562	3.188472
Sex	0 (omitted)					
w1Age	.0995718	.0501182	1.99	0.050	.0002074	.1989362
Race	1.028254	.8442942	1.22	0.226	-.6456619	2.702171
PovStat	1.103203	.8876343	1.24	0.217	-.6566228	2.863028
TIME_V1SCAN	-.0003924	.0006125	-0.64	0.523	-.0016067	.0008219
w1BMI	.0786151	.0536299	1.47	0.146	-.0277178	.1849479
ICV_volM2	4.05e-06	4.08e-06	0.99	0.324	-4.05e-06	.0000121
_cons	-11.91116	6.651226	-1.79	0.076	-25.09802	1.275692

```

129 .
130 . save, replace
    file finaldata_imputed.dta saved

```

```

131 .
132 .
133 .
134 . //INTERACTION BY Sex//
135 . use finaldata_imputed,clear

```

```

136 .
137 .
138 . //ANALYSIS A//
139 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     213
                                   Average RVI         =     0.0102
                                   Largest FMI         =     0.0848
                                   Complete DF         =     204
DF adjustment:  Small sample      DF:      min      =    142.31
                                   avg                  =    193.81
                                   max                  =    202.00
Model F test:      Equal FMI      F(   8, 201.8)   =    20.31
Within VCE type:   OLS            Prob > F        =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10527.74	18183.8	0.58	0.563	-25328.24	46383.71
Sex						
Men	188830	51937.03	3.64	0.000	86419.54	291240.5
Sex#c.LnNFLw3						
Men	-23298.76	22348.75	-1.04	0.298	-67366.25	20768.73
Sex	0	(omitted)				
w1Age	-2026.701	823.8668	-2.46	0.015	-3651.188	-402.2132
Race	-69983.28	13307.17	-5.26	0.000	-96222.17	-43744.4
PovStat	-1174.602	14943.84	-0.08	0.937	-30640.51	28291.31
TIME_V1SCAN	-21.523	9.935045	-2.17	0.031	-41.11279	-1.933201
w1BMI	998.8974	1044.002	0.96	0.340	-1064.859	3062.654
_cons	1271565	69659.39	18.25	0.000	1134165	1408965

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0146
	Largest FMI	=	0.1173
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	115.78
	avg	=	189.97
	max	=	202.02
Model F test: Equal FMI	F(8, 201.5)	=	21.52
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	2877.268	9918.185	0.29	0.772	-16680.45	22434.99
Sex						
Men	102420.6	28314.98	3.62	0.000	46588.08	158253.2
Sex#c.LnNFLw3						
Men	-14440.84	12182.63	-1.19	0.237	-38462.84	9581.161
Sex	0	(omitted)				
w1Age	-1808.416	448.9588	-4.03	0.000	-2693.667	-923.1651
Race	-48592.6	7252.976	-6.70	0.000	-62893.96	-34291.23
PovStat	471.8879	8142.28	0.06	0.954	-15582.87	16526.64
TIME_V1SCAN	-9.517853	5.415916	-1.76	0.080	-20.19696	1.161252
w1BMI	772.0843	578.3039	1.34	0.184	-373.3423	1917.511
_cons	755813.3	38132.49	19.82	0.000	680582.2	831044.4

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0075
	Largest FMI	=	0.0648
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	160.01
	avg	=	196.20
	max	=	201.98
Model F test: Equal FMI	F(8, 201.9)	=	13.77
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	6423.689	8784.241	0.73	0.465	-10897.41	23744.79
Sex						
Men	81814.29	25104.93	3.26	0.001	32311.97	131316.6
Sex#c.LnNFLw3						
Men	-11466.2	10802.71	-1.06	0.290	-32767.05	9834.655
Sex	0 (omitted)					
w1Age	-591.8866	398.2602	-1.49	0.139	-1377.169	193.396
Race	-19296.19	6431.435	-3.00	0.003	-31977.56	-6614.824
PovStat	-4810.075	7224.89	-0.67	0.506	-19055.96	9435.813
TIME_V1SCAN	-10.14187	4.801548	-2.11	0.036	-19.60947	-.6742771
w1BMI	253.0881	499.6394	0.51	0.613	-733.6502	1239.826
_cons	494504	33587.91	14.72	0.000	428260.1	560747.9

142 .

143 .

144 .

145 . //ANALYSIS B//

146 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0216
	Largest FMI	=	0.1738
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	80.20
	avg	=	187.42
	max	=	200.91
Model F test: Equal FMI	F(9, 200.3)	=	20.58
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-21.48788	58.49279	-0.37	0.714	-136.8407	93.86492
Sex						
Men	329.6794	173.492	1.90	0.059	-12.45084	671.8096
Sex#c.LnNFLw3						
Men	-156.381	71.89298	-2.18	0.031	-298.1508	-14.6113
Sex	0 (omitted)					
w1Age	-4.474496	2.638531	-1.70	0.091	-9.677305	.7283121
Race	-64.17513	46.08519	-1.39	0.165	-155.0484	26.69811
PovStat	-81.97587	47.83514	-1.71	0.088	-176.2992	12.34748

TIME_V1SCAN	-.0051153	.0320219	-0.16	0.873	-.0682575	.0580268
w1BMI	1.615788	3.508434	0.46	0.646	-5.365946	8.597523
ICV_volM2	.0017205	.0001973	8.72	0.000	.0013315	.0021095
_cons	1681.436	350.8802	4.79	0.000	989.4599	2373.412

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.0240
		Largest FMI	=	0.1904
		Complete DF	=	203
DF adjustment: Small sample		DF: min	=	72.35
		avg	=	186.40
		max	=	200.90
Model F test: Equal FMI		F(9, 200.1)	=	23.33
Within VCE type: OLS		Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	16.67719	60.8641	0.27	0.784	-103.3546	136.7089
Sex						
Men	268.0335	180.5008	1.48	0.139	-87.92366	623.9906
Sex#c.LnNFLw3						
Men	-152.311	74.7841	-2.04	0.043	-299.7832	-4.838708
Sex	0 (omitted)					
w1Age	-4.040172	2.743733	-1.47	0.142	-9.450432	1.370088
Race	-60.19645	47.92551	-1.26	0.211	-154.6987	34.30582
PovStat	-61.32502	49.73793	-1.23	0.219	-159.4004	36.75033
TIME_V1SCAN	.0159377	.0332983	0.48	0.633	-.0497214	.0815967
w1BMI	2.119381	3.680508	0.58	0.567	-5.216975	9.455736
ICV_volM2	.0021086	.0002051	10.28	0.000	.001704	.0025131
_cons	1280.35	365.0812	3.51	0.001	560.3533	2000.346

148 .

149 . //ANALYSIS C//

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	209
		Average RVI	=	0.0523
		Largest FMI	=	0.3533
		Complete DF	=	199
DF adjustment: Small sample		DF: min	=	30.41
		avg	=	174.34
		max	=	196.86
Model F test: Equal FMI		F(9, 193.4)	=	1.29
Within VCE type: OLS		Prob > F	=	0.2427

LnLesion_Vo~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.365678	.8191359	1.67	0.097	-.2504585	2.981814
Sex						
Men	3.977181	2.424542	1.64	0.103	-.8061338	8.760496
Sex#c.LnNFLw3						
Men	-1.673007	1.008973	-1.66	0.099	-3.663308	.3172933
Sex	0 (omitted)					
w1Age	.0674144	.0363774	1.85	0.065	-.0043268	.1391557
Race	.5880599	.6310862	0.93	0.353	-.6564973	1.832617
PovStat	.325845	.6598178	0.49	0.622	-.9753989	1.627089
TIME_V1SCAN	-.0001348	.0004346	-0.31	0.757	-.0009918	.0007223
w1BMI	.0344447	.0529782	0.65	0.520	-.0736903	.1425797
ICV_volM2	1.11e-06	2.68e-06	0.42	0.679	-4.17e-06	6.39e-06
_cons	-4.121911	4.869601	-0.85	0.398	-13.73332	5.489498

```

151 .
152 . save, replace
    file finaldata_imputed.dta saved

153 .
154 .
155 . *****TABLE S3: LnNFLw3, MODELS 3-6*****
156 .
157 . *****MODEL 3: MODEL 2+w1dxDiabetes w1Glucose*****
158 .
159 . //Overall//
160 .
161 . use finaldata_imputed,clear

162 .
163 .
164 . //ANALYSIS A//
165 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI        =     0.0318
                                   Largest FMI        =     0.1689
                                   Complete DF       =     203
DF adjustment: Small sample       DF: min         =     82.74
                                   avg                 =    169.44
                                   max                 =    201.02
Model F test: Equal FMI           F( 9, 199.2)    =     17.50
Within VCE type: OLS              Prob > F         =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5757.854	12607.45	-0.46	0.648	-30618.91	19103.2
Sex	135894.5	13012.03	10.44	0.000	110235.8	161553.1
w1Age	-1803.022	830.2443	-2.17	0.031	-3440.167	-165.878
Race	-69315.21	13356.09	-5.19	0.000	-95651.3	-42979.12
PovStat	-3801.062	14810.03	-0.26	0.798	-33004	25401.88
TIME_V1SCAN	-22.05414	9.980787	-2.21	0.028	-41.73478	-2.373492
w1BMI	682.8137	1047.492	0.65	0.516	-1389.301	2754.929
w1dxDiabetes	-5515.587	12734.63	-0.43	0.666	-30746.8	19715.62
w1Glucose	257.7428	297.9302	0.87	0.389	-334.8557	850.3413
_cons	1149984	70378.25	16.34	0.000	1011031	1288936

166 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0416
	Largest FMI	=	0.1922
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	71.59
	avg	=	164.63
	max	=	200.95
Model F test: Equal FMI	F(9, 198.1)	=	18.55
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-7410.248	6868.762	-1.08	0.282	-20955.3	6134.805
Sex	69863.13	7081.867	9.87	0.000	55898.26	83828.01
w1Age	-1630.407	451.9955	-3.61	0.000	-2521.694	-739.1202
Race	-48139.39	7268.645	-6.62	0.000	-62471.99	-33806.78
PovStat	-992.867	8061.706	-0.12	0.902	-16889.26	14903.52
TIME_V1SCAN	-10.10167	5.437923	-1.86	0.065	-20.82463	.6212926
w1BMI	611.8394	578.0268	1.06	0.292	-533.622	1757.301
w1dxDiabetes	-6841.73	6958.251	-0.98	0.328	-20635.94	6952.476
w1Glucose	188.9569	164.1744	1.15	0.254	-138.3508	516.2645
_cons	690991.4	38498.29	17.95	0.000	614950.2	767032.5

167 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0371
	Largest FMI	=	0.2066
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	65.63
	avg	=	166.13
	max	=	200.99
Model F test: Equal FMI	F(9, 198.6)	=	11.74
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-1374.618	6108.618	-0.23	0.822	-13421.04	10671.8
Sex	55594	6291.393	8.84	0.000	43187.83	68000.17
w1Age	-513.1436	401.9665	-1.28	0.203	-1305.797	279.5094
Race	-19011.65	6458.6	-2.94	0.004	-31747.04	-6276.258
PovStat	-6212.988	7159.898	-0.87	0.387	-20331.14	7905.164
TIME_V1SCAN	-10.22052	4.823563	-2.12	0.035	-19.73185	-.7092005
w1BMI	74.90136	502.3127	0.15	0.882	-917.8939	1067.697
w1dxDiabetes	-41.30539	6354.667	-0.01	0.995	-12697.3	12614.69
w1Glucose	97.31136	146.9666	0.66	0.510	-196.1476	390.7704
_cons	449376.2	33832.13	13.28	0.000	382605.7	516146.8

168 .
 169 .
 170 . //ANALYSIS B//
 171 . 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	=	213
	Average RVI	=	0.0395
	Largest FMI	=	0.2109
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	63.83
	avg	=	174.96
	max	=	199.92
Model F test: Equal FMI	F(10, 198.1)	=	18.15
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-129.9173	40.20254	-3.23	0.001	-209.1929	-50.64167
Sex	-29.68932	54.79992	-0.54	0.589	-137.7622	78.38353
w1Age	-3.310029	2.655018	-1.25	0.214	-8.545585	1.925528
Race	-59.51979	46.13577	-1.29	0.199	-150.4949	31.45537
PovStat	-101.0969	47.38545	-2.13	0.034	-194.5365	-7.657266
TIME_V1SCAN	-.0063017	.0322459	-0.20	0.845	-.0698907	.0572872
w1BMI	-.9792613	3.561589	-0.27	0.784	-8.094726	6.136203
w1dxDiabetes	-6.726973	40.67393	-0.17	0.869	-87.29895	73.845
w1Glucose	1.582172	.9005496	1.76	0.081	-.1957867	3.36013
ICV_volM2	.0017297	.0001975	8.76	0.000	.0013403	.0021192
_cons	1823.286	328.6894	5.55	0.000	1174.876	2471.695

172 . 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	=	213
	Average RVI	=	0.0450
	Largest FMI	=	0.2204
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	60.39
	avg	=	172.08
	max	=	199.97
Model F test: Equal FMI	F(10, 197.6)	=	20.62
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-91.03629	41.77912	-2.18	0.031	-173.4216	-8.65094
Sex	-81.05059	56.8934	-1.42	0.156	-193.2514	31.15019
w1Age	-2.724918	2.760628	-0.99	0.325	-8.168862	2.719025
Race	-55.49427	47.90417	-1.16	0.248	-149.9564	38.96788
PovStat	-79.46076	49.2157	-1.61	0.108	-176.5097	17.58819
TIME_V1SCAN	.0139851	.0335022	0.42	0.677	-.052082	.0800521
w1BMI	-.3660046	3.717791	-0.10	0.922	-7.801711	7.069702
w1dxDiabetes	-21.35157	42.78608	-0.50	0.619	-106.2675	63.56437
w1Glucose	1.805422	.9419475	1.92	0.057	-.0553719	3.666217
ICV_volM2	.0021149	.0002052	10.31	0.000	.0017103	.0025194
_cons	1448.964	340.5528	4.25	0.000	777.217	2120.71

```

173 .
174 . //ANALYSIS C//
175 . 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     =     209
                                   Average RVI         =     0.0663
                                   Largest FMI          =     0.2855
                                   Complete DF          =     198
DF adjustment:  Small sample      DF:      min      =     42.09
                                   avg                  =    162.34
                                   max                  =    195.93
Model F test:      Equal FMI      F( 10, 191.2)    =     0.90
Within VCE type:   OLS            Prob > F         =     0.5341

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.3067908	.5710518	0.54	0.592	-.8198977	1.433479
Sex	.1877671	.7489504	0.25	0.802	-1.28932	1.664854
w1Age	.0795692	.0371824	2.14	0.034	.006225	.1529134
Race	.6179106	.637877	0.97	0.334	-.6401153	1.875937
PovStat	.1422397	.6551944	0.22	0.828	-1.149899	1.434379
TIME_V1SCAN	-.0001792	.0004399	-0.41	0.684	-.0010468	.0006884
w1BMI	.0200525	.0510573	0.39	0.696	-.0829785	.1230836
w1dxDiabetes	-.2758588	.572848	-0.48	0.631	-1.415067	.8633497
w1Glucose	.006084	.0128036	0.48	0.636	-.0192712	.0314392
ICV_volM2	1.37e-06	2.69e-06	0.51	0.611	-3.94e-06	6.69e-06
_cons	-2.705365	4.460899	-0.61	0.545	-11.50389	6.093161

```

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

178 .
179 .
180 . //Males//
181 .
182 . use finaldata_imputed,clear

183 .
184 .
185 . //ANALYSIS A//
186 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Sex==2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     95
                                   Average RVI         =     0.0322
                                   Largest FMI          =     0.1664
                                   Complete DF          =     86
DF adjustment:  Small sample      DF:      min      =     50.19
                                   avg                  =     76.63
                                   max                  =     83.85
Model F test:      Equal FMI      F( 8, 83.5)      =     3.03
Within VCE type:   OLS            Prob > F         =     0.0049

```


TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-13111.86	19415.62	-0.68	0.501	-51725.16	25501.44
Sex	0 (omitted)					
w1Age	-2461.515	1454.455	-1.69	0.094	-5353.935	430.904
Race	-92450.68	23759.92	-3.89	0.000	-139701.8	-45199.54
PovStat	13725.4	27850.54	0.49	0.623	-41660.98	69111.77
TIME_V1SCAN	-35.73247	17.771	-2.01	0.048	-71.07609	-.3888638
w1BMI	1886.382	2303.291	0.82	0.415	-2701.66	6474.424
w1dxDiabetes	10089.07	21647.45	0.47	0.643	-33120.65	53298.79
w1Glucose	-126.9793	466.4767	-0.27	0.787	-1063.839	809.8809
_cons	1507139	110588	13.63	0.000	1287020	1727258

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0342
	Largest FMI	=	0.1753
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	48.38
	avg	=	77.26
	max	=	83.99
Model F test: Equal FMI	F(8, 83.5)	=	4.79
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-9054.708	10373.91	-0.87	0.385	-29685.48	11576.07
Sex	0 (omitted)					
w1Age	-2479.829	777.1486	-3.19	0.002	-4025.276	-934.3824
Race	-60841.93	12713.74	-4.79	0.000	-86126.22	-35557.65
PovStat	7266.198	14875.03	0.49	0.626	-22314.59	36846.99
TIME_V1SCAN	-18.73901	9.501222	-1.97	0.052	-37.63526	.1572448
w1BMI	1524.429	1232.426	1.24	0.220	-930.6571	3979.515
w1dxDiabetes	308.0679	11277.94	0.03	0.978	-22142.46	22758.59
w1Glucose	-33.09231	250.595	-0.13	0.895	-536.846	470.6614
_cons	894125.7	59757.08	14.96	0.000	775077.3	1013174

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0427
	Largest FMI	=	0.1846
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	46.53
	avg	=	73.75
	max	=	83.74
Model F test: Equal FMI	F(8, 83.2)	=	1.77
Within VCE type: OLS	Prob > F	=	0.0957

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6800.049	9334.319	-0.73	0.468	-25363.69	11763.6
Sex	0	(omitted)				
w1Age	-522.7577	701.1761	-0.75	0.458	-1917.283	871.7673
Race	-29273.45	11427.68	-2.56	0.012	-51999.66	-6547.241
PovStat	-1561.742	13411.31	-0.12	0.908	-28234.1	25110.61
TIME_V1SCAN	-15.11442	8.548667	-1.77	0.081	-32.11653	1.887679
w1BMI	313.8916	1123.097	0.28	0.781	-1926.593	2554.376
w1dxDiabetes	8217.459	10825.57	0.76	0.451	-13531.72	29966.63
w1Glucose	-41.4881	226.5079	-0.18	0.855	-497.2842	414.308
_cons	595741	52838.08	11.27	0.000	490614.6	700867.4

189 .

190 .

191 . //ANALYSIS B//

192 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0555
	Largest FMI	=	0.2570
	Complete DF	=	85
DF adjustment: Small sample	DF: min	=	34.23
	avg	=	72.37
	max	=	83.00
Model F test: Equal FMI	F(9, 82.1)	=	9.01
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-166.3579	60.12098	-2.77	0.007	-285.9397	-46.77605
Sex	0	(omitted)				
w1Age	-4.613417	4.508643	-1.02	0.309	-13.58178	4.354946
Race	21.62876	81.75435	0.26	0.792	-140.9803	184.2378
PovStat	-162.6074	86.29968	-1.88	0.063	-334.2654	9.050584
TIME_V1SCAN	-.0155783	.0560265	-0.28	0.782	-.1270343	.0958777
w1BMI	-.3043228	7.943323	-0.04	0.970	-16.44314	15.8345
w1dxDiabetes	66.25472	70.69265	0.94	0.354	-76.14978	208.6592
w1Glucose	.5585663	1.386112	0.40	0.688	-2.206727	3.32386
ICV_volM2	.0020437	.0003051	6.70	0.000	.0014369	.0026505
_cons	1490.428	616.9483	2.42	0.018	262.6862	2718.169

193 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose ICV_volM

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0396
	Largest FMI	=	0.2342
	Complete DF	=	85
DF adjustment: Small sample	DF: min	=	37.58
	avg	=	76.51
	max	=	82.94
Model F test: Equal FMI	F(9, 82.5)	=	9.71
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-121.9761	61.91948	-1.97	0.052	-245.1327	1.180534
Sex	0 (omitted)					
w1Age	-5.44461	4.654844	-1.17	0.246	-14.70443	3.815209
Race	5.848511	84.36318	0.07	0.945	-161.957	173.654
PovStat	-146.3257	88.95753	-1.64	0.104	-323.2714	30.62001
TIME_V1SCAN	.0081094	.0576448	0.14	0.888	-.1065581	.1227769
w1BMI	3.138077	8.082559	0.39	0.700	-13.23025	19.5064
w1dxDiabetes	41.05562	68.69681	0.60	0.552	-95.96211	178.0734
w1Glucose	1.116143	1.387286	0.80	0.423	-1.644359	3.876646
ICV_volM2	.0023309	.0003149	7.40	0.000	.0017047	.0029572
_cons	1128.175	631.8473	1.79	0.078	-128.8055	2385.156

194 .

195 . //ANALYSIS C//

196 . 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	=	93
	Average RVI	=	0.2277
	Largest FMI	=	0.6250
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	9.31
	avg	=	60.65
	max	=	80.31
Model F test: Equal FMI	F(9, 72.5)	=	0.20
Within VCE type: OLS	Prob > F	=	0.9937

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.1464707	.7473837	-0.20	0.845	-1.634188	1.341246
Sex	0 (omitted)					
w1Age	.0445334	.0577164	0.77	0.443	-.0707184	.1597853
Race	.3728113	1.012409	0.37	0.714	-1.646263	2.391886
PovStat	-.7159634	1.045139	-0.69	0.495	-2.795834	1.363907
TIME_V1SCAN	.0000347	.0006762	0.05	0.959	-.0013117	.0013811
w1BMI	-.0607543	.1265601	-0.48	0.642	-.3455888	.2240803
w1dxDiabetes	-.4943011	.8769491	-0.56	0.577	-2.2743	1.285698
w1Glucose	.0076952	.0185987	0.41	0.682	-.0301974	.0455877
ICV_volM2	-5.44e-07	3.68e-06	-0.15	0.883	-7.87e-06	6.78e-06
_cons	6.359243	7.317683	0.87	0.387	-8.202552	20.92104

197 .

198 . save, replace

file finaldata_imputed.dta saved

199 .

200 .

```

201 .
202 . //Females//
203 .
204 . use finaldata_imputed,clear

205 .
206 .
207 . //ANALYSIS A//
208 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                   Average RVI        =     0.0317
                                   Largest FMI        =     0.1111
                                   Complete DF       =     109
DF adjustment:  Small sample      DF:      min     =     76.07
                                   avg              =     98.70
                                   max              =    106.65
Model F test:      Equal FMI      F(   8, 106.4)  =     3.11
Within VCE type:   OLS           Prob > F       =     0.0034

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	3301.224	18080.31	0.18	0.855	-32546.83	39149.28
Sex	0 (omitted)					
w1Age	-1715.331	997.291	-1.72	0.088	-3692.418	261.7557
Race	-54841.94	15239.44	-3.60	0.000	-85053.81	-24630.08
PovStat	-13614.92	17018.97	-0.80	0.426	-47355.01	20125.18
TIME_V1SCAN	-10.63188	12.00377	-0.89	0.378	-34.42892	13.16515
w1BMI	770.9382	1078.334	0.71	0.476	-1370.235	2912.111
w1dxDiabetes	-19305.32	15316.82	-1.26	0.211	-49810.98	11200.34
w1Glucose	554.2466	375.6284	1.48	0.144	-192.3301	1300.823
_cons	1204963	77263.01	15.60	0.000	1051669	1358258

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                   Average RVI        =     0.0423
                                   Largest FMI        =     0.1514
                                   Complete DF       =     109
DF adjustment:  Small sample      DF:      min     =     63.26
                                   avg              =     94.97
                                   max              =    106.58
Model F test:      Equal FMI      F(   8, 105.9)  =     4.89
Within VCE type:   OLS           Prob > F       =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6365.793	10009.12	-0.64	0.526	-26212.87	13481.28
Sex	0 (omitted)					
w1Age	-1172.413	550.9311	-2.13	0.036	-2264.619	-80.20682
Race	-40986.16	8419.648	-4.87	0.000	-57678.13	-24294.2
PovStat	-6197.676	9413.95	-0.66	0.512	-24861.74	12466.39
TIME_V1SCAN	-3.666616	6.637212	-0.55	0.582	-16.82512	9.491885
w1BMI	632.6241	601.5041	1.05	0.296	-562.9296	1828.178
w1dxDiabetes	-13882.87	8635.282	-1.61	0.113	-31137.73	3371.985
w1Glucose	358.1794	210.8081	1.70	0.093	-61.64391	778.0027
_cons	705974.4	42790.18	16.50	0.000	621059.4	790889.3

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                Average RVI        =     0.0226
                                Largest FMI        =     0.0817
                                Complete DF       =     109
DF adjustment:  Small sample      DF:      min     =     86.03
                                avg               =    100.76
                                max               =    106.97
Model F test:      Equal FMI      F(      8, 106.7) =     1.42
Within VCE type:   OLS           Prob > F      =     0.1953

```

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	7853.371	8841.351	0.89	0.376	-9675.996	25382.74
Sex	0 (omitted)					
w1Age	-747.9886	488.2381	-1.53	0.128	-1715.909	219.9319
Race	-11482.18	7453.211	-1.54	0.126	-26257.75	3293.385
PovStat	-7282.855	8315.504	-0.88	0.383	-23767.62	9201.906
TIME_V1SCAN	-5.688642	5.866186	-0.97	0.334	-17.31771	5.940429
w1BMI	224.4638	521.824	0.43	0.668	-810.7872	1259.715
w1dxDiabetes	-6527.248	7386.14	-0.88	0.379	-21210.33	8155.834
w1Glucose	188.7634	183.8836	1.03	0.307	-176.7292	554.2561
_cons	466623.8	37730.96	12.37	0.000	391773.8	541473.8

211 .

212 .

213 . //ANALYSIS B//

214 . 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    =     118
                                Average RVI        =     0.0486
                                Largest FMI        =     0.2135
                                Complete DF       =     108
DF adjustment:  Small sample      DF:      min     =     46.99
                                avg               =     92.39
                                max               =    105.13
Model F test:      Equal FMI      F(      9, 105.1) =     6.45
Within VCE type:   OLS           Prob > F      =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-39.17455	58.03875	-0.67	0.501	-154.2686	75.91953
Sex	0 (omitted)					
w1Age	-4.180934	3.197208	-1.31	0.194	-10.52031	2.158446
Race	-128.0939	52.15234	-2.46	0.016	-231.5206	-24.66718
PovStat	-40.39224	54.84175	-0.74	0.463	-149.1506	68.36612
TIME_V1SCAN	.0003641	.0388804	0.01	0.993	-.0767567	.077485
w1BMI	.6366943	3.49911	0.18	0.856	-6.319913	7.593301
w1dxDiabetes	-92.02602	52.22781	-1.76	0.085	-197.0952	13.04312
w1Glucose	2.979595	1.254927	2.37	0.020	.4745712	5.484619
ICV_volM2	.0011911	.0002598	4.58	0.000	.0006758	.0017065
_cons	2164.035	413.6887	5.23	0.000	1343.698	2984.372

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                   Average RVI        =     0.0618
                                   Largest FMI        =     0.3191
                                   Complete DF       =     108
DF adjustment:  Small sample      DF:      min    =     29.50
                                   avg              =     88.28
                                   max              =    104.50
Model F test:      Equal FMI      F(   9, 104.5) =     7.98
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-15.36583	62.71146	-0.25	0.807	-139.7436	109.0119
Sex	0 (omitted)					
w1Age	-2.466734	3.456396	-0.71	0.477	-9.320947	4.387478
Race	-109.4016	56.00595	-1.95	0.053	-220.4572	1.654038
PovStat	-10.65059	59.04469	-0.18	0.857	-127.7419	106.4407
TIME_V1SCAN	.0136645	.0418721	0.33	0.745	-.06939	.0967191
w1BMI	-.00903	3.792768	-0.00	0.998	-7.555058	7.536998
w1dxDiabetes	-91.98449	59.77077	-1.54	0.134	-214.1402	30.17122
w1Glucose	2.658793	1.403395	1.89	0.064	-.1631735	5.480759
ICV_volM2	.0017367	.0002793	6.22	0.000	.0011828	.0022906
_cons	1583.774	445.9033	3.55	0.001	699.5297	2468.018

216 .

217 . //ANALYSIS C//

218 . 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    =     116
                                   Average RVI        =     0.0121
                                   Largest FMI        =     0.0700
                                   Complete DF       =     106
DF adjustment:  Small sample      DF:      min    =     87.71
                                   avg              =    101.72
                                   max              =    103.93
Model F test:      Equal FMI      F(   9, 103.9) =     1.63
Within VCE type:   OLS           Prob > F      =     0.1159

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.438796	.9621064	1.50	0.138	-.4693167	3.34691
Sex	0 (omitted)					
w1Age	.0968356	.0518243	1.87	0.065	-.0059359	.199607
Race	1.031372	.8537506	1.21	0.230	-.6617056	2.724449
PovStat	1.09023	.8994909	1.21	0.228	-.6935081	2.873968
TIME_V1SCAN	-.0003829	.000625	-0.61	0.542	-.0016223	.0008566
w1BMI	.0779404	.0549404	1.42	0.159	-.0310168	.1868976
w1dxDiabetes	.1982241	.7738182	0.26	0.798	-1.33692	1.733368
w1Glucose	-.0026048	.0198195	-0.13	0.896	-.0419936	.036784
ICV_volM2	4.18e-06	4.19e-06	1.00	0.320	-4.12e-06	.0000125
_cons	-11.85805	6.723875	-1.76	0.081	-25.19197	1.475868

```

219 .
220 . save, replace
      file finaldata_imputed.dta saved

221 .
222 .
223 . //INTERACTION BY Sex//
224 .
225 .
226 .
227 . //ANALYSIS A//
228 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI        =     0.0295
                                   Largest FMI         =     0.1817
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min     =     76.18
                                   avg                 =    170.87
                                   max                 =    199.98
Model F test:      Equal FMI      F( 10, 198.7)   =     15.87
Within VCE type:   OLS           Prob > F        =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	7280.971	18751.39	0.39	0.698	-29700.15	44262.09
Sex						
Men	184055.4	52652.96	3.50	0.001	80219.4	287891.4
Sex#c.LnNFLw3						
Men	-21395.45	22632.13	-0.95	0.346	-66026.62	23235.71
Sex	0 (omitted)					
w1Age	-1944.02	844.2137	-2.30	0.022	-3608.78	-279.2608
Race	-69445.1	13360.19	-5.20	0.000	-95790.09	-43100.12
PovStat	-1566.74	15001.18	-0.10	0.917	-31147.52	28014.04
TIME_V1SCAN	-21.4107	10.00508	-2.14	0.034	-41.13982	-1.681581
w1BMI	888.7534	1069.634	0.83	0.407	-1226.597	3004.103
w1dxDiabetes	-4512.39	12830.97	-0.35	0.726	-29947.06	20922.28
w1Glucose	228.5324	302.0722	0.76	0.452	-373.0731	830.1378
_cons	1256500	73548.67	17.08	0.000	1111325	1401676

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI        =     0.0383
                                   Largest FMI         =     0.2102
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min     =     64.10
                                   avg                 =    166.33
                                   max                 =    199.94
Model F test:      Equal FMI      F( 10, 197.8)   =     16.87
Within VCE type:   OLS           Prob > F        =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	429.0647	10219.79	0.04	0.967	-19727.38	20585.51
Sex						
Men	98817.4	28675.66	3.45	0.001	42264.9	155369.9
Sex#c.LnNFLw3						
Men	-12862.79	12324.24	-1.04	0.298	-37167.1	11441.51
Sex	0	(omitted)				
w1Age	-1715.156	459.4477	-3.73	0.000	-2621.179	-809.1337
Race	-48218.69	7267.758	-6.63	0.000	-62550	-33887.39
PovStat	349.7533	8161.063	0.04	0.966	-15743.04	16442.55
TIME_V1SCAN	-9.714917	5.44894	-1.78	0.076	-20.45993	1.030093
w1BMI	735.5738	589.8518	1.25	0.215	-432.9031	1904.051
w1dxDiabetes	-6240.954	6990.083	-0.89	0.374	-20100.33	7618.425
w1Glucose	171.3546	166.87	1.03	0.308	-161.9961	504.7054
_cons	743200.7	40247.07	18.47	0.000	663723.1	822678.2

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0348
	Largest FMI	=	0.2164
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	61.82
	avg	=	167.43
	max	=	199.90
Model F test: Equal FMI	F(10, 198.2)	=	10.69
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	5258.377	9093.472	0.58	0.564	-12677.62	23194.37
Sex						
Men	80096.41	25476.23	3.14	0.002	29853.63	130339.2
Sex#c.LnNFLw3						
Men	-10885.13	10951.24	-0.99	0.321	-32481.88	10711.62
Sex	0	(omitted)				
w1Age	-584.8956	408.8671	-1.43	0.154	-1391.202	221.4108
Race	-19076.34	6458.447	-2.95	0.004	-31811.8	-6340.882
PovStat	-5075.464	7251.405	-0.70	0.485	-19374.53	9223.598
TIME_V1SCAN	-9.893027	4.834124	-2.05	0.042	-19.42545	-.3606036
w1BMI	179.7579	513.9079	0.35	0.727	-835.9372	1195.453
w1dxDiabetes	472.0442	6421.436	0.07	0.942	-12333.21	13277.3
w1Glucose	82.4686	148.7585	0.55	0.581	-214.9131	379.8503
_cons	490017.9	35313.9	13.88	0.000	420340.8	559694.9

231 .
 232 .
 233 . //ANALYSIS B//
 234 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0353
	Largest FMI	=	0.1956
	Complete DF	=	201
DF adjustment: Small sample	DF: min	=	69.83
	avg	=	174.06
	max	=	198.90
Model F test: Equal FMI	F(11, 197.6)	=	17.20
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-40.77163	59.37705	-0.69	0.493	-157.8693	76.32604
Sex						
Men	304.8514	174.1695	1.75	0.082	-38.68335	648.3861
Sex#c.LnNFLw3						
Men	-146.3963	72.1329	-2.03	0.044	-288.6573	-4.135344
Sex	0 (omitted)					
w1Age	-4.275242	2.675297	-1.60	0.112	-9.550907	1.000424
Race	-62.8885	45.80919	-1.37	0.171	-153.2225	27.44551
PovStat	-85.96221	47.59692	-1.81	0.072	-179.8217	7.897271
TIME_V1SCAN	-.0024598	.0320357	-0.08	0.939	-.0656356	.060716
w1BMI	.4495209	3.590124	0.13	0.901	-6.711055	7.610097
w1dxDiabetes	-.0393604	40.68047	-0.00	0.999	-80.67317	80.59445
w1Glucose	1.390005	.9094299	1.53	0.129	-.4072934	3.187302
ICV_volM2	.0017017	.0001965	8.66	0.000	.0013142	.0020892
_cons	1631.68	354.4212	4.60	0.000	932.5499	2330.811

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0390
	Largest FMI	=	0.2096
	Complete DF	=	201
DF adjustment: Small sample	DF: min	=	64.21
	avg	=	171.81
	max	=	198.91
Model F test: Equal FMI	F(11, 197.3)	=	19.40
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6.01363	61.90403	-0.10	0.923	-128.1021	116.0748
Sex						
Men	238.0156	181.4722	1.31	0.191	-119.9463	595.9775
Sex#c.LnNFLw3						
Men	-139.6256	75.14724	-1.86	0.065	-287.8385	8.587237
Sex	0 (omitted)					
w1Age	-3.64532	2.787395	-1.31	0.192	-9.142208	1.851569

Race	-58.71383	47.64576	-1.23	0.219	-152.6695	35.24181
PovStat	-65.02953	49.51058	-1.31	0.191	-162.6628	32.60374
TIME_V1SCAN	.0176493	.033344	0.53	0.597	-.0481074	.0834059
w1BMI	.9956517	3.762749	0.26	0.792	-6.520826	8.51213
w1dxDiabetes	-14.98971	42.62047	-0.35	0.726	-99.55979	69.58037
w1Glucose	1.622339	.9496929	1.71	0.090	-.255289	3.499968
ICV_volM2	.0020881	.0002045	10.21	0.000	.0016849	.0024913
_cons	1213.522	368.0619	3.30	0.001	487.5292	1939.515

236 .

237 . //ANALYSIS C//

238 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose IC

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.0654
	Largest FMI	=	0.3017
	Complete DF	=	197
DF adjustment: Small sample	DF: min	=	38.74
	avg	=	157.98
	max	=	194.75
Model F test: Equal FMI	F(11, 190.8)	=	1.05
Within VCE type: OLS	Prob > F	=	0.4045

LnLesion_Vo~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.303054	.8553305	1.52	0.130	-.3859213	2.99203
Sex						
Men	3.907587	2.454058	1.59	0.113	-.9349582	8.750132
Sex#c.LnNFLw3						
Men	-1.635556	1.024409	-1.60	0.112	-3.656809	.3856976
Sex	0 (omitted)					
w1Age	.0702367	.0376307	1.87	0.064	-.0040054	.1444789
Race	.6013494	.635136	0.95	0.345	-.6513035	1.854002
PovStat	.3256949	.6629828	0.49	0.624	-.9818675	1.633257
TIME_V1SCAN	-.0001434	.000439	-0.33	0.744	-.0010091	.0007224
w1BMI	.0351026	.0524929	0.67	0.508	-.0710971	.1413023
w1dxDiabetes	-.195557	.5837953	-0.33	0.739	-1.360645	.9695308
w1Glucose	.0039673	.0128441	0.31	0.758	-.0214733	.0294079
ICV_volM2	1.08e-06	2.69e-06	0.40	0.689	-4.23e-06	6.38e-06
_cons	-4.41734	4.877429	-0.91	0.366	-14.03871	5.204035

239 .

240 . save, replace

file finaldata_imputed.dta saved

241 .

```

242 .
243 .
244 .
245 . *****MODEL 4: MODEL 2+liver/kidney disease*****
246 .
247 . //Overall//
248 .
249 . use finaldata_imputed,clear

250 .
251 .
252 . //ANALYSIS A//
253 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI         =     0.1279
                                   Largest FMI         =     0.5093
                                   Complete DF         =     200
DF adjustment:  Small sample      DF:      min     =     16.22
                                   avg                 =    131.21
                                   max                 =    193.83
Model F test:      Equal FMI      F( 12, 184.0) =     13.01
Within VCE type:   OLS           Prob > F      =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-2028.474	12921.68	-0.16	0.875	-27520.3	23463.35
Sex	157737.5	16587.87	9.51	0.000	124858.9	190616.1
w1Age	-1652.497	828.9442	-1.99	0.048	-3287.428	-17.56521
Race	-62935.45	14084.54	-4.47	0.000	-90717.16	-35153.74
PovStat	-422.5785	14741.68	-0.03	0.977	-29497.27	28652.12
TIME_V1SCAN	-24.14032	9.943117	-2.43	0.016	-43.75285	-4.527786
w1BMI	1920.463	1100.498	1.75	0.083	-257.3042	4098.23
w1Creatinine	2872.527	32269.39	0.09	0.930	-65461.71	71206.76
w1USpecGrav	-421359.6	1163390	-0.36	0.718	-2731779	1889060
w1BUN	1645.95	1813.314	0.91	0.366	-1937.401	5229.302
w1ALP	247.5874	327.4793	0.76	0.453	-407.8327	903.0075
w1UricAcid	-15832.91	5385.119	-2.94	0.004	-26513.29	-5152.535
_cons	1553568	1166995	1.33	0.186	-762198.5	3869335

```

254 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI         =     0.1828
                                   Largest FMI         =     0.5754
                                   Complete DF         =     200
DF adjustment:  Small sample      DF:      min     =     12.85
                                   avg                 =    113.75
                                   max                 =    194.45
Model F test:      Equal FMI      F( 12, 173.8) =     13.00
Within VCE type:   OLS           Prob > F      =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6934.827	7181.918	-0.97	0.336	-21118.39	7248.735
Sex	79717.13	9337.339	8.54	0.000	61119.53	98314.73
w1Age	-1671.378	455.6378	-3.67	0.000	-2570.221	-772.5344
Race	-44480.52	7737.348	-5.75	0.000	-59745.72	-29215.33
PovStat	802.3586	8051.115	0.10	0.921	-15076.36	16681.08
TIME_V1SCAN	-10.81805	5.444896	-1.99	0.048	-21.55877	-.0773372
w1BMI	1160.149	605.5503	1.92	0.058	-39.19857	2359.496
w1Creatinine	5930.284	18722.23	0.32	0.757	-34563.96	46424.53
w1USpecGrav	-442930.9	640245.8	-0.69	0.491	-1715892	830029.7
w1BUN	1307.797	1038.567	1.26	0.211	-757.786	3373.381
w1ALP	178.4268	200.5955	0.89	0.383	-235.7814	592.635
w1UricAcid	-7446.982	3017.43	-2.47	0.016	-13456.63	-1437.333
_cons	1127129	641754	1.76	0.082	-147610.7	2401869

255 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.1018
	Largest FMI	=	0.4508
	Complete DF	=	200
DF adjustment: Small sample	DF: min	=	20.21
	avg	=	135.12
	max	=	195.87
Model F test: Equal FMI	F(12, 188.3)	=	9.04
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	879.4883	6221.363	0.14	0.888	-11390.57	13149.55
Sex	66464.66	7888.216	8.43	0.000	50868.52	82060.81
w1Age	-406.7152	400.9958	-1.01	0.312	-1197.539	384.1084
Race	-15950.06	6900.176	-2.31	0.022	-29566.79	-2333.321
PovStat	-4574.545	7170.943	-0.64	0.524	-18718.76	9569.671
TIME_V1SCAN	-11.2992	4.819304	-2.34	0.020	-20.80478	-1.793619
w1BMI	674.6326	532.962	1.27	0.208	-379.7993	1729.065
w1Creatinine	-3081.446	14948.9	-0.21	0.839	-34243.63	28080.73
w1USpecGrav	-159350.4	563234.4	-0.28	0.778	-1277505	958804.4
w1BUN	665.6854	910.8664	0.73	0.467	-1142.284	2473.655
w1ALP	95.06878	149.8762	0.63	0.527	-201.7899	391.9275
w1UricAcid	-7239.861	2602.401	-2.78	0.006	-12398.24	-2081.478
_cons	600164.5	565041.4	1.06	0.291	-520736.8	1721066

256 .

257 . //ANALYSIS B//

258 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.2693
	Largest FMI	=	0.7550
	Complete DF	=	199
	DF: min	=	7.21
	avg	=	117.77
DF adjustment: Small sample	max	=	194.22
	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-130.301	42.38149	-3.07	0.002	-213.927	-46.67509
Sex	-30.06289	68.66345	-0.44	0.662	-166.0829	105.9571
w1Age	-4.075942	2.703878	-1.51	0.133	-9.408675	1.256791
Race	-47.9566	51.59747	-0.93	0.355	-150.1364	54.22316
PovStat	-92.78277	48.19174	-1.93	0.056	-187.8338	2.26829
TIME_V1SCAN	-.0109479	.0329136	-0.33	0.740	-.0758781	.0539823
w1BMI	.3385112	3.755103	0.09	0.928	-7.131838	7.80886
w1Creatinine	45.24236	141.7979	0.32	0.759	-288.1131	378.5978
w1USpecGrav	-2535.906	3885.159	-0.65	0.516	-10281.27	5209.459
w1BUN	8.78768	6.395104	1.37	0.175	-4.00541	21.58077
w1ALP	-.1556517	1.174797	-0.13	0.896	-2.565284	2.253981
w1UricAcid	-6.643573	17.27739	-0.38	0.701	-40.76626	27.47911
ICV_volM2	.0017359	.0002055	8.45	0.000	.0013305	.0021414
_cons	4424.582	3913.62	1.13	0.262	-3373.827	12222.99

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.2412
	Largest FMI	=	0.7040
	Complete DF	=	199
	DF: min	=	8.45
	avg	=	113.06
	max	=	194.98
DF adjustment: Small sample	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-99.95482	44.15448	-2.26	0.025	-187.096	-12.81361
Sex	-99.63282	71.32325	-1.40	0.165	-240.9337	41.66805
w1Age	-3.922096	2.812824	-1.39	0.165	-9.470002	1.625809
Race	-49.39746	53.38112	-0.93	0.357	-155.063	56.26812
PovStat	-76.34661	49.88626	-1.53	0.128	-174.7326	22.03934
TIME_V1SCAN	.0125874	.0340562	0.37	0.712	-.0545883	.0797631
w1BMI	-.157064	3.944904	-0.04	0.968	-8.022378	7.70825
w1Creatinine	45.30676	135.6973	0.33	0.747	-264.7129	355.3264
w1USpecGrav	-200.2113	4213.644	-0.05	0.962	-8681.879	8281.456
w1BUN	7.619219	6.733573	1.13	0.263	-5.893311	21.13175
w1ALP	.848485	1.206786	0.70	0.488	-1.618757	3.315727
w1UricAcid	5.789295	17.99347	0.32	0.748	-29.7569	41.33549
ICV_volM2	.0021399	.0002129	10.05	0.000	.0017198	.00256
_cons	1638.038	4235.562	0.39	0.701	-6878.285	10154.36

260 .

261 . //ANALYSIS C//

262 .

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.2912
	Largest FMI	=	0.7599
	Complete DF	=	195
	DF: min	=	7.08
	avg	=	105.26
	max	=	189.75
DF adjustment: Small sample	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.3042569	.5854487	0.52	0.604	-.8516868	1.460201
Sex	.0182388	1.023488	0.02	0.986	-2.035463	2.07194
w1Age	.0757563	.0381093	1.99	0.048	.0005613	.1509512
Race	.7703424	.6967635	1.11	0.271	-.6070164	2.147701
PovStat	.1249254	.6638427	0.19	0.851	-1.184611	1.434461
TIME_V1SCAN	-.0002141	.0004441	-0.48	0.630	-.0010901	.0006619
w1BMI	.0038223	.0567768	0.07	0.947	-.1114964	.119141
w1Creatinine	-.2038481	1.987805	-0.10	0.921	-4.893327	4.485631
w1USpecGrav	33.36908	57.34734	0.58	0.564	-82.86763	149.6058
w1BUN	.0649979	.091475	0.71	0.480	-.1183891	.2483848
w1ALP	-.0084134	.0150832	-0.56	0.580	-.0387978	.0219709
w1UricAcid	-.001949	.2454046	-0.01	0.994	-.4866892	.4827913
ICV_volM2	1.71e-06	2.80e-06	0.61	0.542	-3.81e-06	7.23e-06
_cons	-35.93583	57.61104	-0.62	0.537	-152.5776	80.70595

264 .

265 . save, replace
file finaldata_imputed.dta saved

266 .

267 . //Males//

268 .

269 . use finaldata_imputed,clear

270 .

271 .

272 . //ANALYSIS A//

273 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.1689
	Largest FMI	=	0.5828
	Complete DF	=	83
	DF: min	=	10.63
	avg	=	60.07
	max	=	80.05
Model F test: Equal FMI	F(11, 75.9)	=	2.43
Within VCE type: OLS	Prob > F	=	0.0119

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-17142.52	20060.62	-0.85	0.395	-57064.03	22778.98
Sex	0	(omitted)				
w1Age	-2413.059	1483.131	-1.63	0.108	-5368.187	542.0701
Race	-82914.3	25808.93	-3.21	0.002	-134340.2	-31488.43
PovStat	15482.47	28371.43	0.55	0.587	-41052.37	72017.31
TIME_V1SCAN	-34.79962	17.59112	-1.98	0.052	-69.83656	.2373137
w1BMI	3530.762	2453.563	1.44	0.156	-1396.293	8457.817
w1Creatinine	-20909.51	62199.41	-0.34	0.743	-158393.5	116574.5
w1USpecGrav	-2307027	1989710	-1.16	0.250	-6280040	1665985
w1BUN	2976.191	3136.946	0.95	0.347	-3329.362	9281.744
w1ALP	779.9127	661.436	1.18	0.248	-570.5987	2130.424
w1UricAcid	-12985.16	9585.571	-1.35	0.180	-32101.99	6131.678
_cons	3797494	2013950	1.89	0.064	-221726	7816714

274 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.2010
	Largest FMI	=	0.5315
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	12.53
	avg	=	53.07
	max	=	78.07
Model F test: Equal FMI	F(11, 74.4)	=	3.59
Within VCE type: OLS	Prob > F	=	0.0004

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-13067.08	10758.08	-1.21	0.228	-34484.47	8350.316
Sex	0	(omitted)				
w1Age	-2496.933	791.0362	-3.16	0.002	-4073.31	-920.5562
Race	-55916.47	13701.74	-4.08	0.000	-83211.2	-28621.74
PovStat	9971.35	15019.26	0.66	0.509	-19942.67	39885.37
TIME_V1SCAN	-17.06753	9.353038	-1.82	0.072	-35.6945	1.559432
w1BMI	2283.195	1329.094	1.72	0.093	-395.2996	4961.69
w1Creatinine	-5426.481	31575.94	-0.17	0.866	-73904.82	63051.86
w1USpecGrav	-1500843	1108268	-1.35	0.182	-3730786	729099.1
w1BUN	1759.988	1739.676	1.01	0.319	-1769.355	5289.331
w1ALP	444.998	395.4348	1.13	0.277	-394.0806	1284.076
w1UricAcid	-6159.329	5289.546	-1.16	0.249	-16761.95	4443.297
_cons	2383088	1120621	2.13	0.039	130762.7	4635413

275 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.1603
	Largest FMI	=	0.5819
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	10.66
	avg	=	62.67
	max	=	78.96
Model F test: Equal FMI	F(11, 76.3)	=	1.51
Within VCE type: OLS	Prob > F	=	0.1449

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-7256.972	9760.5	-0.74	0.459	-26684.92	12170.97
Sex	0 (omitted)					
w1Age	-538.4321	718.0117	-0.75	0.456	-1969.016	892.1515
Race	-25266.94	12650.96	-2.00	0.050	-50505.42	-28.45918
PovStat	-1341.8	13901.26	-0.10	0.923	-29075.29	26391.69
TIME_V1SCAN	-15.64036	8.521658	-1.84	0.070	-32.61358	1.33286
w1BMI	1220.566	1181.89	1.03	0.306	-1150.427	3591.558
w1Creatinine	-14343.74	30101.82	-0.48	0.643	-80854.25	52166.77
w1USpecGrav	-1212992	946390.2	-1.28	0.204	-3098986	673001.2
w1BUN	1180.921	1526.848	0.77	0.443	-1891.406	4253.247
w1ALP	364.7028	293.8218	1.24	0.220	-223.5411	952.9467
w1UricAcid	-5284.417	4650.677	-1.14	0.260	-14561.29	3992.453
_cons	1807918	957811.4	1.89	0.063	-100093.7	3715929

276 .

277 .

278 . //ANALYSIS B//

279 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.3095
	Largest FMI	=	0.7574
	Complete DF	=	82
DF adjustment: Small sample	DF: min	=	6.15
	avg	=	53.60
	max	=	78.68
Model F test: Equal FMI	F(11, 68.3)	=	5.40
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-159.7069	65.85956	-2.42	0.018	-291.0372	-28.37666
Sex	0 (omitted)					
w1Age	-3.564483	4.711491	-0.76	0.452	-12.95001	5.82104
Race	3.771831	90.89678	0.04	0.967	-177.5439	185.0876
PovStat	-167.3844	89.64616	-1.87	0.066	-345.9013	11.13247
TIME_V1SCAN	-.0332105	.0569031	-0.58	0.561	-.1465307	.0801096
w1BMI	3.422625	8.795902	0.39	0.701	-14.72253	21.56778
w1Creatinine	110.7246	250.8306	0.44	0.674	-499.4295	720.8787
w1USpecGrav	-967.1017	6794.076	-0.14	0.888	-14690.65	12756.44
w1BUN	2.313671	10.49389	0.22	0.827	-19.00386	23.6312
w1ALP	-.8090174	2.167939	-0.37	0.712	-5.259567	3.641532
w1UricAcid	-15.61624	30.09861	-0.52	0.605	-75.52987	44.29739
ICV_volM2	.0020216	.000321	6.30	0.000	.0013824	.0026609
_cons	2498.115	6996.53	0.36	0.723	-11639.29	16635.52

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.2076
	Largest FMI	=	0.5959
	Complete DF	=	82
DF adjustment: Small sample	DF: min	=	10.17
	avg	=	52.18
	max	=	78.61
Model F test: Equal FMI	F(11, 73.2)	=	6.52
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-130.7226	67.1067	-1.95	0.055	-264.4674	3.022167
Sex	0 (omitted)					
w1Age	-5.341986	4.790702	-1.12	0.268	-14.88021	4.196234
Race	12.77713	92.48753	0.14	0.891	-171.5766	197.1309
PovStat	-146.5641	91.31736	-1.60	0.113	-328.3439	35.21562
TIME_V1SCAN	-.0133081	.0578913	-0.23	0.819	-.1285468	.1019305
w1BMI	6.022555	9.175715	0.66	0.518	-13.01361	25.05872
w1Creatinine	71.8274	207.3992	0.35	0.736	-389.2545	532.9093
w1USpecGrav	3168.542	7245.575	0.44	0.665	-11615.84	17952.92
w1BUN	5.04815	10.9853	0.46	0.649	-17.39547	27.49177
w1ALP	1.94063	2.200217	0.88	0.385	-2.562979	6.444238
w1UricAcid	2.540544	31.47644	0.08	0.936	-60.20484	65.28593
ICV_volM2	.0022812	.0003323	6.87	0.000	.0016191	.0029432
_cons	-2237.826	7423.575	-0.30	0.765	-17370.49	12894.84

281 .

282 . //ANALYSIS C//

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	93
	Average RVI	=	0.8842
	Largest FMI	=	0.9035
	Complete DF	=	80
DF adjustment: Small sample	DF: min	=	3.55
	avg	=	37.59
	max	=	75.08
Model F test: Equal FMI	F(11, 46.9)	=	0.21
Within VCE type: OLS	Prob > F	=	0.9962

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.0658323	.7471413	-0.09	0.930	-1.554187	1.422523
Sex	0 (omitted)					
w1Age	.0477617	.0572003	0.83	0.407	-.0666569	.1621803
Race	.5148132	1.081601	0.48	0.636	-1.655051	2.684677
PovStat	-.5760326	1.048178	-0.55	0.584	-2.666668	1.514602
TIME_V1SCAN	.0001028	.0006892	0.15	0.882	-.00128	.0014855
w1BMI	-.1015792	.1487646	-0.68	0.518	-.4564187	.2532602
w1Creatinine	-.1489211	4.503415	-0.03	0.975	-13.29601	12.99817
w1USpecGrav	28.18938	106.3513	0.27	0.797	-210.813	267.1917
w1BUN	.0011193	.1529447	0.01	0.994	-.3315639	.3338025
w1ALP	-.0310914	.0304111	-1.02	0.329	-.0980257	.0358429
w1UricAcid	.111167	.362056	0.31	0.760	-.610527	.832861
ICV_volM2	1.12e-06	3.89e-06	0.29	0.775	-6.68e-06	8.91e-06
_cons	-22.14046	108.5859	-0.20	0.843	-265.5557	221.2748

```

284 .
285 . save, replace
      file finaldata_imputed.dta saved

286 .
287 .
288 .
289 . //Females//
290 .
291 . use finaldata_imputed,clear

292 .
293 .
294 . //ANALYSIS A//
295 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs     =         118
                                   Average RVI         =        0.1207
                                   Largest FMI         =        0.3341
                                   Complete DF         =         106
DF adjustment:  Small sample      DF:      min      =        27.53
                                   avg                  =        67.24
                                   max                  =       102.35
Model F test:      Equal FMI      F( 11, 99.5)     =         2.94
Within VCE type:   OLS            Prob > F         =        0.0021

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	25135.19	18199.28	1.38	0.170	-10980.75	61251.14
Sex	0	(omitted)				
w1Age	-1335.989	1016.891	-1.31	0.192	-3352.905	680.9268
Race	-48352.83	16581.32	-2.92	0.004	-81291.03	-15414.63
PovStat	-8399.69	16990.78	-0.49	0.622	-42108.69	25309.31
TIME_V1SCAN	-11.49147	11.81237	-0.97	0.333	-34.92253	11.93958
w1BMI	2414.392	1174.642	2.06	0.043	78.05938	4750.725
w1Creatinine	17346.94	32899.91	0.53	0.602	-50096.82	84790.69
w1USpecGrav	986035.2	1412715	0.70	0.489	-1868623	3840693
w1BUN	-770.7956	2548.197	-0.30	0.764	-5912.753	4371.161
w1ALP	-151.9498	370.7313	-0.41	0.684	-900.46	596.5604
w1UricAcid	-17530.48	6677.773	-2.63	0.012	-31034.94	-4026.015
_cons	213975.3	1426806	0.15	0.882	-2667890	3095840

```

296 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

```

```

Multiple-imputation estimates      Imputations      =          5
Linear regression                  Number of obs     =         118
                                   Average RVI         =        0.1314
                                   Largest FMI         =        0.3949
                                   Complete DF         =         106
DF adjustment:  Small sample      DF:      min      =        21.67
                                   avg                  =        67.94
                                   max                  =       103.01
Model F test:      Equal FMI      F( 11, 98.8)     =         3.58
Within VCE type:   OLS            Prob > F         =        0.0003

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	3449.098	10419.66	0.33	0.741	-17247.47	24145.67
Sex	0 (omitted)					
w1Age	-1145.879	576.8394	-1.99	0.050	-2290.125	-1.633833
Race	-38188.07	9245.71	-4.13	0.000	-56534.29	-19841.85
PovStat	-4622.973	9548.061	-0.48	0.629	-23560.26	14314.31
TIME_V1SCAN	-3.689913	6.65274	-0.55	0.580	-16.88404	9.50421
w1BMI	1347.942	668.2231	2.02	0.047	17.96651	2677.917
w1Creatinine	13225.25	19355.84	0.68	0.502	-26951.3	53401.8
w1USpecGrav	409837.7	790253	0.52	0.607	-1182702	2002378
w1BUN	10.14964	1426.391	0.01	0.994	-2861.112	2881.412
w1ALP	-18.73753	212.8243	-0.09	0.930	-450.019	412.544
w1UricAcid	-8005.495	3705.674	-2.16	0.036	-15465.25	-545.7456
_cons	298845.9	798463.7	0.37	0.710	-1309726	1907418

297 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.1470
	Largest FMI	=	0.5049
	Complete DF	=	106
DF adjustment: Small sample	DF: min	=	14.59
	avg	=	66.60
	max	=	103.35
Model F test: Equal FMI	F(11, 97.9)	=	1.96
Within VCE type: OLS	Prob > F	=	0.0406

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	18055.98	8728.014	2.07	0.041	742.042	35369.93
Sex	0 (omitted)					
w1Age	-512.9589	489.3715	-1.05	0.297	-1483.473	457.5548
Race	-7275.359	8128.963	-0.89	0.373	-23449.47	8898.752
PovStat	-4393.116	8258.956	-0.53	0.596	-20785.19	11998.96
TIME_V1SCAN	-6.692617	5.730383	-1.17	0.246	-18.06204	4.676803
w1BMI	1009.182	559.0957	1.81	0.074	-101.226	2119.59
w1Creatinine	2491.692	17945.28	0.14	0.891	-35851.14	40834.53
w1USpecGrav	573456.2	679905.2	0.84	0.404	-799359.9	1946272
w1BUN	-175.2452	1221.079	-0.14	0.887	-2634.789	2284.298
w1ALP	-115.3214	179.1564	-0.64	0.523	-477.1344	246.4915
w1UricAcid	-8901.135	3201.191	-2.78	0.008	-15363.48	-2438.795
_cons	-112461.1	686489.9	-0.16	0.871	-1497875	1272953

298 .

299 .

300 . //ANALYSIS B//

301 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0712
	Largest FMI	=	0.3512
	Complete DF	=	105
DF adjustment: Small sample	DF: min	=	25.61
	avg	=	84.80
	max	=	102.42
Model F test: Equal FMI	F(12, 101.6)	=	4.35
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-7.39902	61.73656	-0.12	0.905	-129.8639	115.0658
Sex	0 (omitted)					
w1Age	-7.67017	3.447279	-2.22	0.028	-14.51013	-.8302152
Race	-91.54935	57.36657	-1.60	0.114	-205.3399	22.24116
PovStat	-40.23665	56.90409	-0.71	0.481	-153.1084	72.63508
TIME_V1SCAN	.0033376	.0396843	0.08	0.933	-.0753721	.0820473
w1BMI	1.672962	3.965729	0.42	0.674	-6.201075	9.546999
w1Creatinine	7.71015	112.8045	0.07	0.946	-224.3329	239.7532
w1USpecGrav	-3585.88	4477.592	-0.80	0.426	-12514.78	5343.025
w1BUN	14.41989	7.941639	1.82	0.073	-1.373706	30.21349
w1ALP	-.3468105	1.169465	-0.30	0.768	-2.676982	1.983361
w1UricAcid	-14.77603	21.44147	-0.69	0.493	-57.46976	27.91769
ICV_volM2	.0012911	.0002745	4.70	0.000	.0007465	.0018357
_cons	5858.993	4517.766	1.30	0.199	-3151.636	14869.62

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.1156
	Largest FMI	=	0.4401
	Complete DF	=	105
DF adjustment: Small sample	DF: min	=	18.28
	avg	=	76.60
	max	=	101.97
Model F test: Equal FMI	F(12, 99.7)	=	5.23
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.7240587	67.24811	0.01	0.991	-132.7407	134.1888
Sex	0 (omitted)					
w1Age	-5.641823	3.781779	-1.49	0.139	-13.15457	1.870929
Race	-94.3187	62.20085	-1.52	0.133	-217.7258	29.08842
PovStat	-21.13148	61.34794	-0.34	0.731	-142.8153	100.5524
TIME_V1SCAN	.0226825	.0430777	0.53	0.600	-.0627787	.1081436
w1BMI	-.6784688	4.294427	-0.16	0.875	-9.207921	7.850984
w1Creatinine	13.0773	129.3287	0.10	0.921	-258.3367	284.4913
w1USpecGrav	-2124.161	5011.993	-0.42	0.673	-12185.78	7937.461
w1BUN	8.740933	8.872255	0.99	0.328	-8.992677	26.47454
w1ALP	-.0457973	1.314295	-0.03	0.972	-2.683281	2.591686
w1UricAcid	6.608908	23.12336	0.29	0.776	-39.43168	52.6495
ICV_volM2	.0018887	.0002953	6.40	0.000	.001303	.0024745
_cons	3737.99	5045.207	0.74	0.462	-6387.95	13863.93

303 .

304 . //ANALYSIS C//

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	116
	Average RVI	=	0.0233
	Largest FMI	=	0.1356
	Complete DF	=	103
DF adjustment: Small sample	DF: min	=	65.30
	avg	=	96.20
	max	=	100.96
Model F test: Equal FMI	F(12, 100.8)	=	1.37
Within VCE type: OLS	Prob > F	=	0.1930

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.296187	.9851986	1.32	0.191	-.6581917	3.250566
Sex	0 (omitted)					
w1Age	.0941068	.0544831	1.73	0.087	-.0139754	.2021889
Race	1.176653	.9289157	1.27	0.208	-.6661151	3.01942
PovStat	1.169709	.920166	1.27	0.207	-.6556718	2.99509
TIME_V1SCAN	-.0005145	.0006347	-0.81	0.420	-.0017736	.0007446
w1BMI	.0873298	.0633383	1.38	0.171	-.038359	.2130186
w1Creatinine	-.1654085	1.59303	-0.10	0.918	-3.346633	3.015816
w1USpecGrav	30.52582	68.77585	0.44	0.658	-105.9397	166.9913
w1BUN	.1119311	.1244087	0.90	0.370	-.1348738	.3587361
w1ALP	.0045796	.0182355	0.25	0.802	-.0316116	.0407708
w1UricAcid	-.3002799	.3567285	-0.84	0.402	-1.009355	.4087948
ICV_volM2	3.04e-06	4.41e-06	0.69	0.493	-5.72e-06	.0000118
_cons	-41.82949	69.09331	-0.61	0.546	-178.9235	95.26452

306 .

307 . save, replace
file finaldata_imputed.dta saved

308 .

309 . **INTERACTION BY Sex**

310 .

311 .

312 . //ANALYSIS A//

313 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.1199
	Largest FMI	=	0.4883
	Complete DF	=	199
DF adjustment: Small sample	DF: min	=	17.50
	avg	=	139.81
	max	=	194.45
Model F test: Equal FMI	F(13, 185.6)	=	12.25
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	15130.57	18803.39	0.80	0.422	-21957.44	52218.59
Sex						
Men	221482.9	53948.83	4.11	0.000	115024.8	327941
Sex#c.LnNFLw3						
Men	-27951.91	22322.33	-1.25	0.212	-71978.41	16074.59
Sex	0 (omitted)					
w1Age	-1802.229	837.0884	-2.15	0.033	-3453.319	-151.1393
Race	-62926.24	14052.26	-4.48	0.000	-90644.19	-35208.29
PovStat	2572.589	14883.56	0.17	0.863	-26781.34	31926.52
TIME_V1SCAN	-23.38561	9.945073	-2.35	0.020	-43.00249	-3.768729
w1BMI	2228.87	1122.035	1.99	0.049	10.03566	4447.705
w1Creatinine	2553.504	31716.33	0.08	0.937	-64215.43	69322.44
w1USpecGrav	-461938.4	1165331	-0.40	0.693	-2777260	1853383
w1BUN	1604.994	1819.691	0.88	0.379	-1992.444	5202.431
w1ALP	225.017	331.2618	0.68	0.500	-439.586	889.62
w1UricAcid	-16392.75	5433.952	-3.02	0.003	-27181.17	-5604.339
_cons	1713041	1172158	1.46	0.147	-613860	4039942

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

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 213
Average RVI = 0.1773
Largest FMI = 0.5630
Complete DF = 199
DF: min = 13.40
avg = 125.31
max = 194.99
Model F test: Equal FMI F(13, 176.0) = 12.24
Within VCE type: OLS Prob > F = 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	2994.053	10311.74	0.29	0.772	-17347.69	23335.79
Sex						
Men	116609	29818.34	3.91	0.000	57721.47	175496.5
Sex#c.LnNFLw3						
Men	-16177.89	12243.51	-1.32	0.188	-40328.93	7973.144
Sex	0 (omitted)					
w1Age	-1758.006	460.0798	-3.82	0.000	-2665.692	-850.3192
Race	-44474.95	7722.689	-5.76	0.000	-59711.65	-29238.24
PovStat	2535.714	8124.252	0.31	0.755	-13486.97	18558.4
TIME_V1SCAN	-10.38112	5.442844	-1.91	0.058	-21.11802	.3557785
w1BMI	1338.538	617.5335	2.17	0.032	116.3092	2560.767
w1Creatinine	5759.718	18490.38	0.31	0.760	-34065.69	45585.13
w1USpecGrav	-466448.3	642100.3	-0.73	0.470	-1744101	811204.5
w1BUN	1284.45	1049.303	1.22	0.225	-806.823	3375.722
w1ALP	165.3236	203.586	0.81	0.426	-257.027	587.6742
w1UricAcid	-7771.94	3062.013	-2.54	0.014	-13885.73	-1658.147
_cons	1207881	645552.1	1.87	0.065	-75352.38	2491114

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.0912
		Largest FMI	=	0.4264
		Complete DF	=	199
DF adjustment:	Small sample	DF: min	=	22.25
		avg	=	144.03
		max	=	196.10
Model F test:	Equal FMI	F(13, 189.8)	=	8.57
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	9334.977	9090.39	1.03	0.306	-8593.344	27263.3
Sex						
Men	97873	25840.16	3.79	0.000	46908.71	148837.3
Sex#c.LnNFLw3						
Men	-13769.28	10786.32	-1.28	0.203	-35041.35	7502.792
Sex	0 (omitted)					
w1Age	-480.5651	404.5975	-1.19	0.236	-1278.519	317.3891
Race	-15943.21	6877.58	-2.32	0.022	-29514.39	-2372.028
PovStat	-3097.99	7241.797	-0.43	0.669	-17381.66	11185.68
TIME_V1SCAN	-10.92748	4.818944	-2.27	0.024	-20.43255	-1.422419
w1BMI	826.8185	544.2391	1.52	0.131	-249.3914	1903.028
w1Creatinine	-3266.076	14681.59	-0.22	0.826	-33693.83	27161.68
w1USpecGrav	-179509.1	563021.5	-0.32	0.751	-1297389	938370.4
w1BUN	645.5441	905.3774	0.71	0.477	-1150.053	2441.141
w1ALP	84.00461	150.3898	0.56	0.578	-213.9894	381.9986
w1UricAcid	-7514.867	2611.139	-2.88	0.005	-12691.44	-2338.297
_cons	667655.4	566515.2	1.18	0.241	-456297.2	1791608

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318 . //ANALYSIS B//

319 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.2516
		Largest FMI	=	0.7493
		Complete DF	=	198
DF adjustment:	Small sample	DF: min	=	7.33
		avg	=	123.86
		max	=	192.90
Model F test:	Equal FMI	F(13, 161.7)	=	11.54
Within VCE type:	OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-35.01077	62.15676	-0.56	0.574	-157.7064	87.68483
Sex						
Men	331.0683	186.9644	1.77	0.079	-38.35953	700.4961
Sex#c.LnNFLw3						
Men	-154.8945	73.57847	-2.11	0.037	-300.088	-9.700981
Sex	0 (omitted)					
w1Age	-4.895831	2.70839	-1.81	0.072	-10.23769	.4460306
Race	-51.36147	50.97796	-1.01	0.316	-152.2701	49.54713
PovStat	-76.33172	48.32095	-1.58	0.116	-171.6374	18.97391
TIME_V1SCAN	-.0076616	.0326701	-0.23	0.815	-.0721148	.0567916
w1BMI	2.133982	3.812936	0.56	0.577	-5.444595	9.712559
w1Creatinine	43.79676	139.2974	0.31	0.762	-282.5777	370.1712
w1USpecGrav	-2752.587	3845.756	-0.72	0.476	-10417	4911.83
w1BUN	8.55756	6.233011	1.37	0.174	-3.866427	20.98155
w1ALP	-.2736074	1.198401	-0.23	0.821	-2.75226	2.205045
w1UricAcid	-10.3485	17.32886	-0.60	0.551	-44.59334	23.89634
ICV_volM2	.0016961	.0002047	8.29	0.000	.0012922	.0021
_cons	4451.596	3891.442	1.14	0.256	-3301.256	12204.45

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.2267
	Largest FMI	=	0.6996
	Complete DF	=	198
DF adjustment: Small sample	DF: min	=	8.57
	avg	=	119.41
	max	=	194.04
Model F test: Equal FMI	F(13, 166.1)	=	13.38
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-14.19604	64.62179	-0.22	0.826	-141.7445	113.3524
Sex						
Men	225.3094	194.3107	1.16	0.248	-158.5693	609.1881
Sex#c.LnNFLw3						
Men	-139.3775	76.47811	-1.82	0.070	-290.279	11.52408
Sex	0 (omitted)					
w1Age	-4.659645	2.82557	-1.65	0.101	-10.23294	.9136468
Race	-52.48523	52.88578	-0.99	0.323	-157.1251	52.15467
PovStat	-61.55085	50.22519	-1.23	0.222	-160.6082	37.50655
TIME_V1SCAN	.0155437	.0338899	0.46	0.647	-.0513064	.0823938
w1BMI	1.458392	4.029507	0.36	0.718	-6.572213	9.488996
w1Creatinine	44.00464	134.1984	0.33	0.751	-261.9303	349.9396
w1USpecGrav	-393.457	4181.105	-0.09	0.925	-8805.314	8018.4
w1BUN	7.406361	6.607987	1.12	0.267	-5.813501	20.62622
w1ALP	.7424127	1.227076	0.61	0.551	-1.782085	3.266911
w1UricAcid	2.46353	18.15918	0.14	0.892	-33.44527	38.37233
ICV_volM2	.0021041	.0002129	9.88	0.000	.0016841	.0025241
_cons	1588.07	4220.223	0.38	0.708	-6893.78	10069.92


```

321 .
322 . //ANALYSIS C//
323 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.2911
	Largest FMI	=	0.7812
	Complete DF	=	194
DF adjustment: Small sample	DF: min	=	6.62
	avg	=	105.99
	max	=	187.58
Model F test: Equal FMI	F(13, 152.3)	=	0.85
Within VCE type: OLS	Prob > F	=	0.6105

LnLesion_Vo~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.356036	.8879071	1.53	0.129	-.4019164	3.113989
Sex						
Men	3.998615	2.728329	1.47	0.146	-1.425785	9.423015
Sex#c.LnNFLw3						
Men	-1.715101	1.045877	-1.64	0.103	-3.781258	.3510563
Sex	0 (omitted)					
w1Age	.0683577	.0382653	1.79	0.076	-.0071557	.1438711
Race	.7538778	.6964831	1.08	0.281	-.6235722	2.131328
PovStat	.3227801	.6751161	0.48	0.633	-1.009352	1.654912
TIME_V1SCAN	-.0001833	.000443	-0.41	0.679	-.0010572	.0006905
w1BMI	.023041	.0594646	0.39	0.701	-.0985549	.144637
w1Creatinine	-.243036	2.062715	-0.12	0.910	-5.177861	4.691789
w1USpecGrav	30.55201	57.70129	0.53	0.600	-86.74324	147.8473
w1BUN	.0620427	.0907195	0.68	0.497	-.1196509	.2437363
w1ALP	-.0099576	.0146307	-0.68	0.499	-.0392346	.0193194
w1UricAcid	-.038973	.2467449	-0.16	0.875	-.5266394	.4486935
ICV_volM2	1.29e-06	2.79e-06	0.46	0.644	-4.22e-06	6.80e-06
_cons	-34.94422	57.99354	-0.60	0.551	-152.6085	82.72008

```

324 .
325 . save, replace
    file finaldata_imputed.dta saved
326 .
327 . *****MODEL 5: MODEL 2+oxidative stress*****
328 .
329 . //Overall//
330 .
331 . use finaldata_imputed,clear
332 .

```

333 .

334 . //ANALYSIS A//

335 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0611
	Largest FMI	=	0.3533
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	30.52
	avg	=	161.15
	max	=	199.83
Model F test: Equal FMI	F(10, 194.9)	=	15.32
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-3683.4	12380.54	-0.30	0.766	-28098.34	20731.54
Sex	138658.1	13265.89	10.45	0.000	112498.6	164817.7
w1Age	-1991.65	820.1705	-2.43	0.016	-3608.95	-374.3506
Race	-64092.01	16114.73	-3.98	0.000	-95968.89	-32215.13
PovStat	-2565.888	14933.79	-0.17	0.864	-32015.14	26883.37
TIME_V1SCAN	-22.60949	10.19316	-2.22	0.028	-42.71156	-2.507425
w1BMI	693.4597	1062.551	0.65	0.515	-1407.112	2794.032
w1TotalD	654.514	852.8923	0.77	0.449	-1086.09	2395.118
w1Albumin	-23132.93	24364.44	-0.95	0.344	-71255.9	24990.04
w1EosinPct	-880.2193	3351.057	-0.26	0.793	-7491.335	5730.897
_cons	1254027	139248.8	9.01	0.000	978628.6	1529426

336 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0540
	Largest FMI	=	0.2800
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	43.53
	avg	=	160.96
	max	=	199.78
Model F test: Equal FMI	F(10, 195.9)	=	16.31
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5954.053	6754.597	-0.88	0.379	-19274.21	7366.106
Sex	70206.05	7239.726	9.70	0.000	55929.83	84482.27
w1Age	-1745.94	447.7973	-3.90	0.000	-2628.956	-862.9245
Race	-45630.44	8726.936	-5.23	0.000	-62878.47	-28382.41
PovStat	-940.5717	8154.021	-0.12	0.908	-17020.25	15139.11
TIME_V1SCAN	-9.913372	5.543834	-1.79	0.075	-20.84555	1.018804
w1BMI	627.8865	587.2384	1.07	0.287	-534.6864	1790.459
w1TotalD	236.2807	445.2	0.53	0.598	-661.2332	1133.795
w1Albumin	-9318.372	13454.85	-0.69	0.490	-35923.09	17286.35
w1EosinPct	1361.433	1830.29	0.74	0.458	-2249.523	4972.389
_cons	735961.3	75635.9	9.73	0.000	586453.3	885469.4

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0602
	Largest FMI	=	0.3451
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	31.68
	avg	=	160.14
	max	=	199.91
Model F test: Equal FMI	F(10, 195.0)	=	10.49
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-565.4481	5974.673	-0.09	0.925	-12347.73	11216.83
Sex	56997.58	6441.68	8.85	0.000	44293.16	69702.01
w1Age	-577.9816	395.7677	-1.46	0.146	-1358.397	202.4333
Race	-16099.11	7757.721	-2.08	0.040	-31440.41	-757.8049
PovStat	-5080.076	7203.113	-0.71	0.481	-19284.37	9124.213
TIME_V1SCAN	-10.39759	4.940323	-2.10	0.037	-20.14174	-.6534331
w1BMI	141.8561	509.1594	0.28	0.781	-864.0057	1147.718
w1TotalD	391.7732	409.5066	0.96	0.346	-442.6986	1226.245
w1Albumin	-6726.629	11856.85	-0.57	0.571	-30163.63	16710.38
w1EosinPct	-1476.596	1604.636	-0.92	0.359	-4641.3	1688.108
_cons	475722.4	67879.76	7.01	0.000	341311.8	610133

338 .

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340 . //ANALYSIS B//

341 . 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	=	213
	Average RVI	=	0.0809
	Largest FMI	=	0.2258
	Complete DF	=	201
DF adjustment: Small sample	DF: min	=	58.43
	avg	=	143.41
	max	=	198.96
Model F test: Equal FMI	F(11, 192.7)	=	15.13
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-115.3311	40.04443	-2.88	0.004	-194.3018	-36.36031
Sex	-37.72404	56.60478	-0.67	0.506	-149.3537	73.90565
w1Age	-3.30551	2.661059	-1.24	0.216	-8.553236	1.942216
Race	-62.50038	53.55712	-1.17	0.245	-168.1986	43.19787
PovStat	-97.85218	48.32916	-2.02	0.044	-193.1593	-2.545092
TIME_V1SCAN	-.0041601	.0333635	-0.12	0.901	-.0699643	.061644
w1BMI	.7383587	3.707671	0.20	0.843	-6.682196	8.158913
w1TotalD	-.3857536	2.565063	-0.15	0.881	-5.51937	4.747863
w1Albumin	71.96804	85.58072	0.84	0.404	-99.07566	243.0117
w1EosinPct	.283609	11.39621	0.02	0.980	-22.31081	22.87803
ICV_volM2	.0017688	.0002007	8.81	0.000	.0013731	.0021645
_cons	1548.636	558.9903	2.77	0.007	436.0041	2661.269

342 . 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    =     213
                                   Average RVI        =     0.0745
                                   Largest FMI         =     0.2522
                                   Complete DF         =     201
DF adjustment:  Small sample      DF:      min     =     50.40
                                   avg               =     147.17
                                   max               =     198.59
Model F test:      Equal FMI      F( 11, 193.5) =     17.53
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-73.19743	41.44309	-1.77	0.079	-154.9236	8.528741
Sex	-82.90951	59.0093	-1.41	0.162	-199.2991	33.48011
w1Age	-2.869049	2.75388	-1.04	0.299	-8.299649	2.56155
Race	-81.91416	55.01774	-1.49	0.138	-190.4431	26.61479
PovStat	-84.27567	50.01911	-1.68	0.094	-182.9124	14.36109
TIME_V1SCAN	.0090515	.0344891	0.26	0.793	-.0589667	.0770696
w1BMI	.2437766	3.901596	0.06	0.950	-7.591267	8.07882
w1TotalD	-2.678437	2.456939	-1.09	0.277	-7.533224	2.17635
w1Albumin	3.410568	88.82355	0.04	0.969	-174.1496	180.9707
w1EosinPct	4.889791	12.25643	0.40	0.691	-19.56502	29.3446
ICV_volM2	.0021499	.0002089	10.29	0.000	.001738	.0025618
_cons	1613.309	587.8198	2.74	0.008	440.1147	2786.503

343 .

344 . //ANALYSIS C//

345 . 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    =     209
                                   Average RVI        =     0.0632
                                   Largest FMI         =     0.3067
                                   Complete DF         =     197
DF adjustment:  Small sample      DF:      min     =     37.79
                                   avg               =     159.68
                                   max               =     194.44
Model F test:      Equal FMI      F( 11, 191.1) =     1.00
Within VCE type:   OLS           Prob > F      =     0.4491

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.3321304	.5506286	0.60	0.547	-.7538893	1.41815
Sex	-.0536557	.7731762	-0.07	0.945	-1.578938	1.471627
w1Age	.0785047	.0364791	2.15	0.033	.0065591	.1504503
Race	.9435373	.7222878	1.31	0.193	-.4813221	2.368397
PovStat	.1776378	.6577883	0.27	0.787	-1.119679	1.474954
TIME_V1SCAN	-.0000421	.0004466	-0.09	0.925	-.0009228	.0008386
w1BMI	.0374934	.0528068	0.71	0.482	-.0694276	.1444143
w1TotalD	.0202611	.0318433	0.64	0.525	-.0426158	.083138
w1Albumin	1.158919	1.122028	1.03	0.304	-1.064229	3.382067
w1EosinPct	.1334542	.1510234	0.88	0.378	-.1651694	.4320778
ICV_volM2	1.64e-06	2.71e-06	0.61	0.546	-3.70e-06	6.98e-06
_cons	-9.350913	7.418115	-1.26	0.210	-24.03756	5.335733

```

346 .
347 . save, replace
    file finaldata_imputed.dta saved

```

```

348 .
349 .
350 . //Males//
351 .
352 .
353 . use finaldata_imputed,clear

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354 .
355 .
356 . //ANALYSIS A//
357 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Se

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     95
                                   Average RVI         =    0.0848
                                   Largest FMI         =    0.4048
                                   Complete DF        =     85
DF adjustment:  Small sample      DF:      min      =    19.42
                                   avg                =    68.42
                                   max                =    82.53
Model F test:      Equal FMI      F(   9,   80.8)   =     2.71
Within VCE type:   OLS            Prob > F         =    0.0083

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-11320.71	19183.79	-0.59	0.557	-49479.74	26838.32
Sex	0 (omitted)					
w1Age	-2620.181	1531.667	-1.71	0.091	-5667.338	426.976
Race	-79510.41	30175.48	-2.63	0.011	-139993.7	-19027.11
PovStat	12159.03	28217.64	0.43	0.668	-43974.57	68292.63
TIME_V1SCAN	-37.9061	17.61908	-2.15	0.034	-72.95749	-2.854717
w1BMI	2037.054	2293.1	0.89	0.377	-2530.181	6604.289
w1TotalD	1352.12	1693.709	0.80	0.434	-2187.693	4891.933
w1Albumin	-35265.97	47057.15	-0.75	0.456	-129028.1	58496.18
w1EosinPct	-78.95019	6762.877	-0.01	0.991	-13605.41	13447.51
_cons	1610535	281444.9	5.72	0.000	1049481	2171589

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     95
                                   Average RVI         =    0.0656
                                   Largest FMI         =    0.3047
                                   Complete DF        =     85
DF adjustment:  Small sample      DF:      min      =    28.28
                                   avg                =    69.83
                                   max                =    82.86
Model F test:      Equal FMI      F(   9,   81.6)   =     4.15
Within VCE type:   OLS            Prob > F         =    0.0002

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-8917.737	10297.79	-0.87	0.389	-29400.14	11564.66
Sex	0 (omitted)					
w1Age	-2458.281	823.8987	-2.98	0.004	-4097.4	-819.1625
Race	-56757.38	15926.93	-3.56	0.001	-88586.77	-24927.98
PovStat	7710.167	15142.68	0.51	0.612	-22410.84	37831.17
TIME_V1SCAN	-18.68521	9.442843	-1.98	0.051	-37.46824	.0978317
w1BMI	1469.892	1266.967	1.16	0.250	-1061.462	4001.246
w1TotalD	377.3957	854.1379	0.44	0.662	-1371.457	2126.248
w1Albumin	-7400.965	24957.1	-0.30	0.768	-57072.88	42270.95
w1EosinPct	925.8939	3653.943	0.25	0.801	-6387.963	8239.751
_cons	905778.7	149679.4	6.05	0.000	607708.5	1203849

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0945
	Largest FMI	=	0.4024
	Complete DF	=	85
DF adjustment: Small sample	DF: min	=	19.59
	avg	=	68.03
	max	=	82.35
Model F test: Equal FMI	F(9, 80.4)	=	1.70
Within VCE type: OLS	Prob > F	=	0.1017

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5161.806	9208.938	-0.56	0.577	-23480.16	13156.54
Sex	0 (omitted)					
w1Age	-635.2397	736.7263	-0.86	0.391	-2101.118	830.6389
Race	-20678.79	14408.46	-1.44	0.157	-49535.75	8178.169
PovStat	-2789.897	13552.24	-0.21	0.837	-29751.1	24171.31
TIME_V1SCAN	-17.02237	8.452802	-2.01	0.047	-33.83855	-.2061885
w1BMI	595.46	1090.323	0.55	0.587	-1574.71	2765.63
w1TotalD	905.5238	811.0491	1.12	0.278	-788.5761	2599.624
w1Albumin	-19172.54	22719.84	-0.84	0.402	-64473.25	26128.17
w1EosinPct	-440.3944	3292.374	-0.13	0.894	-7041.962	6161.173
_cons	647214.3	134528	4.81	0.000	379128.9	915299.7

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363 . //ANALYSIS B//

364 . 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	=	95
	Average RVI	=	0.0952
	Largest FMI	=	0.2110
	Complete DF	=	84
DF adjustment: Small sample	DF: min	=	41.07
	avg	=	63.76
	max	=	81.65
Model F test: Equal FMI	F(10, 80.0)	=	7.45
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-152.1982	60.54052	-2.51	0.014	-272.646	-31.75037
Sex	0 (omitted)					
w1Age	-4.894189	4.918712	-1.00	0.323	-14.6955	4.907125
Race	45.1698	99.23228	0.46	0.651	-153.0856	243.4252
PovStat	-171.5903	88.88404	-1.93	0.057	-348.4421	5.261495
TIME_V1SCAN	-.0276591	.0564065	-0.49	0.625	-.1398848	.0845667
w1BMI	4.461815	7.76088	0.57	0.568	-11.1644	20.08803
w1TotalD	2.469897	4.764267	0.52	0.607	-7.15126	12.09105
w1Albumin	61.32776	159.6823	0.38	0.703	-260.7694	383.4249
w1EosinPct	-12.0475	22.08766	-0.55	0.588	-56.52528	32.43028
ICV_volM2	.0020656	.0003116	6.63	0.000	.0014457	.0026855
_cons	1104.978	1060.47	1.04	0.301	-1013.576	3223.532

365 . 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	=	95
	Average RVI	=	0.0686
	Largest FMI	=	0.1794
	Complete DF	=	84
DF adjustment: Small sample	DF: min	=	46.79
	avg	=	69.27
	max	=	81.56
Model F test: Equal FMI	F(10, 80.9)	=	8.25
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-101.5405	62.08867	-1.64	0.106	-225.0667	21.98578
Sex	0 (omitted)					
w1Age	-7.654545	4.932768	-1.55	0.125	-17.46873	2.159642
Race	-31.80637	98.91666	-0.32	0.749	-228.8096	165.1968
PovStat	-175.1708	90.95671	-1.93	0.058	-356.1274	5.785849
TIME_V1SCAN	-.0225905	.0579212	-0.39	0.698	-.1378338	.0926528
w1BMI	4.891708	7.93418	0.62	0.541	-11.0717	20.85511
w1TotalD	-2.047903	4.797085	-0.43	0.671	-11.69574	7.599932
w1Albumin	-122.7585	157.8886	-0.78	0.440	-438.9293	193.4123
w1EosinPct	-17.53924	21.67661	-0.81	0.421	-60.84645	25.76797
ICV_volM2	.0023451	.0003199	7.33	0.000	.0017086	.0029816
_cons	2041.684	1088.198	1.88	0.065	-132.2772	4215.645

366 .

367 . //ANALYSIS C//

368 . 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	=	93
	Average RVI	=	0.2382
	Largest FMI	=	0.6294
	Complete DF	=	82
DF adjustment: Small sample	DF: min	=	9.16
	avg	=	53.14
	max	=	79.85
Model F test: Equal FMI	F(10, 72.0)	=	0.34
Within VCE type: OLS	Prob > F	=	0.9670

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.2244543	.7309177	-0.31	0.760	-1.679068	1.230159
Sex	0 (omitted)					
w1Age	.0593429	.0597631	0.99	0.324	-.0596793	.1783652
Race	1.072859	1.179077	0.91	0.367	-1.285595	3.431313
PovStat	-.3587388	1.070969	-0.33	0.739	-2.491589	1.774111
TIME_V1SCAN	.0002123	.0006626	0.32	0.750	-.0011066	.0015312
w1BMI	-.0355568	.1269535	-0.28	0.786	-.3219799	.2508662
w1TotalD	.059869	.0578004	1.04	0.307	-.0575161	.1772542
w1Albumin	1.48168	2.095198	0.71	0.486	-2.827776	5.791135
w1EosinPct	.1288924	.2677433	0.48	0.633	-.4124849	.6702698
ICV_volM2	-1.02e-06	3.67e-06	-0.28	0.782	-8.33e-06	6.29e-06
_cons	-3.71049	14.50147	-0.26	0.800	-33.46555	26.04457

```

369 .
370 . save, replace
    file finaldata_imputed.dta saved

371 .
372 .
373 .
374 . //Females//
375 .
376 . use finaldata_imputed,clear

377 .
378 .
379 . //ANALYSIS A//
380 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if Se

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     118
                                   Average RVI        =     0.0688
                                   Largest FMI        =     0.2075
                                   Complete DF        =     108
DF adjustment:  Small sample      DF:      min      =     48.33
                                   avg                =     85.07
                                   max                =    105.76
Model F test:      Equal FMI      F(   9, 103.7)   =     2.43
Within VCE type:   OLS           Prob > F        =     0.0150

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10910.17	17472.09	0.62	0.534	-23733.68	45554.03
Sex	0 (omitted)					
w1Age	-1995.513	995.5228	-2.00	0.048	-3969.286	-21.74008
Race	-54923.42	17723.36	-3.10	0.003	-90085.46	-19761.38
PovStat	-13591.34	17422.13	-0.78	0.437	-48136.81	20954.12
TIME_V1SCAN	-9.441778	12.37879	-0.76	0.447	-33.98568	15.10213
w1BMI	774.6814	1114.691	0.69	0.489	-1440.351	2989.713
w1TotalD	182.9741	864.3302	0.21	0.833	-1552.674	1918.622
w1Albumin	-17917.33	27576.9	-0.65	0.518	-72927.03	37092.38
w1EosinPct	-1707.911	4151.506	-0.41	0.683	-10053.59	6637.769
_cons	1323916	152401.4	8.69	0.000	1020178	1627655

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0588
	Largest FMI	=	0.1604
	Complete DF	=	108
DF adjustment: Small sample	DF: min	=	60.25
	avg	=	85.51
	max	=	105.69
Model F test: Equal FMI	F(9, 104.3)	=	3.91
Within VCE type: OLS	Prob > F	=	0.0003

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-1482.204	9701.657	-0.15	0.879	-20720.44	17756.03
Sex	0	(omitted)				
w1Age	-1428.783	551.5546	-2.59	0.011	-2522.331	-335.2356
Race	-40038.97	9785.664	-4.09	0.000	-59449.45	-20628.49
PovStat	-8117.949	9689.747	-0.84	0.404	-27334.39	11098.49
TIME_V1SCAN	-2.031178	6.868014	-0.30	0.768	-15.64937	11.58701
w1BMI	664.9775	623.4148	1.07	0.289	-575.1717	1905.127
w1TotalD	84.842	463.2332	0.18	0.855	-839.6411	1009.325
w1Albumin	-13306.2	15514.9	-0.86	0.394	-44337.97	17725.57
w1EosinPct	1290.287	2233.525	0.58	0.566	-3173.665	5754.239
_cons	786596.5	85844.23	9.16	0.000	615039.6	958153.3

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0738
	Largest FMI	=	0.2333
	Complete DF	=	108
DF adjustment: Small sample	DF: min	=	42.92
	avg	=	84.86
	max	=	105.71
Model F test: Equal FMI	F(9, 103.4)	=	1.26
Within VCE type: OLS	Prob > F	=	0.2685

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10653.49	8452.497	1.26	0.210	-6105.494	27412.48
Sex	0	(omitted)				
w1Age	-809.3877	482.3819	-1.68	0.096	-1765.787	147.0117
Race	-12333.38	8606.199	-1.43	0.155	-29410.17	4743.416
PovStat	-6130.484	8417.083	-0.73	0.468	-22818.85	10557.88
TIME_V1SCAN	-5.527896	6.007088	-0.92	0.360	-17.43904	6.383252
w1BMI	237.0961	536.8688	0.44	0.660	-829.13	1303.322
w1TotalD	75.9917	425.2697	0.18	0.859	-780.8975	932.8809
w1Albumin	525.0466	13251.31	0.04	0.969	-25875.83	26925.92
w1EosinPct	-2309.728	2039.527	-1.13	0.264	-6423.044	1803.588
_cons	480514.8	73704.31	6.52	0.000	333657.7	627371.9

383 .
 384 .
 385 . //ANALYSIS B//
 386 . 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	=	118
	Average RVI	=	0.0804
	Largest FMI	=	0.2828
	Complete DF	=	107
DF adjustment: Small sample	DF: min	=	34.28
	avg	=	82.84
	max	=	104.57
Model F test: Equal FMI	F(10, 102.8)	=	4.85
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	5.893168	57.07074	0.10	0.918	-107.2762	119.0626
Sex	0 (omitted)					
w1Age	-5.508423	3.255217	-1.69	0.094	-11.96385	.9470036
Race	-143.4996	61.22706	-2.34	0.021	-265.1453	-21.85395
PovStat	-52.72232	56.9896	-0.93	0.357	-165.7574	60.31279
TIME_V1SCAN	.0170265	.0407544	0.42	0.677	-.0638288	.0978818
w1BMI	1.848577	3.704376	0.50	0.619	-5.530994	9.228148
w1TotalD	-2.132457	2.948699	-0.72	0.474	-8.123147	3.858233
w1Albumin	58.2383	89.43443	0.65	0.517	-119.9058	236.3824
w1EosinPct	1.994843	13.58131	0.15	0.884	-25.34628	29.33597
ICV_volM2	.0013284	.0002638	5.04	0.000	.0008053	.0018515
_cons	1976.881	648.1212	3.05	0.003	686.1049	3267.657

387 . 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	=	118
	Average RVI	=	0.0516
	Largest FMI	=	0.1677
	Complete DF	=	107
DF adjustment: Small sample	DF: min	=	57.89
	avg	=	89.28
	max	=	103.97
Model F test: Equal FMI	F(10, 104.0)	=	6.84
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	26.01747	60.87168	0.43	0.670	-94.70357	146.7385
Sex	0 (omitted)					
w1Age	-3.861135	3.457301	-1.12	0.267	-10.71712	2.994844
Race	-128.2612	64.00466	-2.00	0.048	-255.2559	-1.26651
PovStat	-31.80884	60.41567	-0.53	0.600	-151.6255	88.00779
TIME_V1SCAN	.0309033	.0432697	0.71	0.477	-.0549367	.1167434
w1BMI	1.068492	3.952841	0.27	0.788	-6.810458	8.947443
w1TotalD	-3.011644	2.893455	-1.04	0.302	-8.786908	2.763621
w1Albumin	55.81564	93.9855	0.59	0.554	-131.1206	242.7519
w1EosinPct	11.06841	14.05141	0.79	0.434	-17.05971	39.19653
ICV_volM2	.0018739	.0002819	6.65	0.000	.0013149	.0024329
_cons	1402.543	676.3611	2.07	0.041	58.49873	2746.587

```

388 .
389 . //ANALYSIS C//
390 . 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    =     116
                                   Average RVI        =     0.0112
                                   Largest FMI         =     0.0553
                                   Complete DF         =     105
DF adjustment:  Small sample      DF:      min     =     91.42
                                   avg                 =    100.92
                                   max                 =    102.97
Model F test:      Equal FMI      F( 10, 103.0)   =     1.52
Within VCE type:   OLS           Prob > F       =     0.1437

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.430809	.9196974	1.56	0.123	-.3932567	3.254874
Sex	0 (omitted)					
w1Age	.100156	.0515828	1.94	0.055	-.0021489	.2024608
Race	.9186454	.958928	0.96	0.340	-.9836171	2.820908
PovStat	1.003487	.9153556	1.10	0.276	-.8119121	2.818885
TIME_V1SCAN	-.0003524	.00064	-0.55	0.583	-.0016217	.000917
w1BMI	.0846586	.0563146	1.50	0.136	-.0270472	.1963644
w1TotalD	-.0201774	.0414663	-0.49	0.628	-.1025399	.0621852
w1Albumin	.7626852	1.38336	0.55	0.583	-1.981935	3.507305
w1EosinPct	.0625295	.1955097	0.32	0.750	-.3253038	.4503628
ICV_volM2	4.51e-06	4.19e-06	1.08	0.284	-3.80e-06	.0000128
_cons	-15.55812	9.988901	-1.56	0.122	-35.37239	4.256157

```

391 .
392 . save, replace
    file finaldata_imputed.dta saved
393 .
394 .
395 . *****INTERACTION BY Sex*****
396 .
397 .
398 . //ANALYSIS A//
399 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct I

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     179
                                   Average RVI        =     0.0102
                                   Largest FMI         =     0.0957
                                   Complete DF         =     167
DF adjustment:  Small sample      DF:      min     =    114.53
                                   avg                 =    159.66
                                   max                 =    165.00
Model F test:      Equal FMI      F( 11, 164.9)   =    12.84
Within VCE type:   OLS           Prob > F       =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	8864.402	20112.18	0.44	0.660	-30846.38	48575.18
Sex						
Men	189193.3	59139.76	3.20	0.002	72423.5	305963.1
Sex#c.LnNFLw3						
Men	-21805.05	25412.39	-0.86	0.392	-71980.77	28370.66
Sex	0 (omitted)					
w1Age	-2408.241	885.2491	-2.72	0.007	-4156.126	-660.356
Race	-65597.71	16556.69	-3.96	0.000	-98300.62	-32894.8
PovStat	1214.976	16443.93	0.07	0.941	-31252.9	33682.85
TIME_V1SCAN	-19.61752	11.82432	-1.66	0.099	-42.96459	3.729539
w1BMI	873.5489	1139.419	0.77	0.444	-1376.186	3123.284
w1TotalD	734.2074	800.0044	0.92	0.361	-850.5171	2318.932
w1Albumin	-4982.539	27272.74	-0.18	0.855	-58831.09	48866.01
w1EosinPct	-2549.023	3528.177	-0.72	0.471	-9516.235	4418.189
_cons	1292618	154645.3	8.36	0.000	987271.5	1597964

400 . mi estimate: reg GM c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sam

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0058
	Largest FMI	=	0.0580
	Complete DF	=	167
DF adjustment: Small sample	DF: min	=	139.01
	avg	=	162.31
	max	=	165.02
Model F test: Equal FMI	F(11, 165.0)	=	14.57
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	2553.107	10786.72	0.24	0.813	-18744.78	23850.99
Sex						
Men	101736.7	31711.29	3.21	0.002	39124.17	164349.2
Sex#c.LnNFLw3						
Men	-13289.4	13629.48	-0.98	0.331	-40200.11	13621.31
Sex	0 (omitted)					
w1Age	-2026.976	474.7863	-4.27	0.000	-2964.416	-1089.536
Race	-47710.18	8833.193	-5.40	0.000	-65153.79	-30266.57
PovStat	-621.841	8819.699	-0.07	0.944	-18035.91	16792.22
TIME_V1SCAN	-6.825065	6.339286	-1.08	0.283	-19.3418	5.691669
w1BMI	746.9153	611.1789	1.22	0.223	-459.8282	1953.659
w1TotalD	220.4692	421.1415	0.52	0.601	-612.2021	1053.141
w1Albumin	3975.288	14631.07	0.27	0.786	-24912.94	32863.52
w1EosinPct	384.965	1887.858	0.20	0.839	-3342.783	4112.713
_cons	738320.3	82912.67	8.90	0.000	574611.6	902029.1

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	179
		Average RVI	=	0.0119
		Largest FMI	=	0.1043
		Complete DF	=	167
DF adjustment:	Small sample	DF: min	=	109.14
		avg	=	158.84
		max	=	164.97
Model F test:	Equal FMI	F(11, 164.9)	=	8.73
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	4670.13	9751.685	0.48	0.633	-14584.27	23924.53
Sex						
Men	81665.03	28684.43	2.85	0.005	25027.95	138302.1
Sex#c.LnNFLw3						
Men	-10791.19	12322.81	-0.88	0.382	-35122.16	13539.78
Sex	0 (omitted)					
w1Age	-758.6818	429.2657	-1.77	0.079	-1606.251	88.88715
Race	-15250.65	8048.962	-1.89	0.060	-31151.17	649.8709
PovStat	-2374.888	7973.538	-0.30	0.766	-18118.37	13368.59
TIME_V1SCAN	-10.4554	5.734155	-1.82	0.070	-21.77753	.8667245
w1BMI	262.7579	552.5604	0.48	0.635	-828.2552	1353.771
w1TotalD	486.2763	389.5306	1.25	0.215	-285.7499	1258.302
w1Albumin	-481.6646	13222.92	-0.04	0.971	-26589.63	25626.3
w1EosinPct	-2144.493	1712.766	-1.25	0.212	-5526.897	1237.91
_cons	492496.8	74992.4	6.57	0.000	344423.9	640569.7

402 .

403 .

404 . //ANALYSIS B//

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

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	213
		Average RVI	=	0.0703
		Largest FMI	=	0.2270
		Complete DF	=	200
DF adjustment:	Small sample	DF: min	=	57.91
		avg	=	148.12
		max	=	197.88
Model F test:	Equal FMI	F(12, 193.5)	=	14.65
Within VCE type:	OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-20.05507	59.17707	-0.34	0.735	-136.7731	96.66298
Sex						
Men	326.3097	175.9851	1.85	0.065	-20.77033	673.3896
Sex#c.LnNFLw3						
Men	-158.9645	72.78057	-2.18	0.030	-302.5012	-15.42783
Sex	0 (omitted)					
w1Age	-4.241267	2.670328	-1.59	0.114	-9.507424	1.02489

Race	-70.78066	53.13308	-1.33	0.185	-175.6376	34.07625
PovStat	-81.85631	48.42371	-1.69	0.093	-177.3526	13.63994
TIME_V1SCAN	-.0009994	.033043	-0.03	0.976	-.0661708	.064172
w1BMI	2.138546	3.745129	0.57	0.570	-5.358394	9.635486
w1TotalD	-.7820167	2.530733	-0.31	0.758	-5.839091	4.275058
w1Albumin	72.66634	84.2308	0.86	0.391	-95.45347	240.7861
w1EosinPct	-1.712649	11.30836	-0.15	0.880	-24.12615	20.70085
ICV_volM2	.0017386	.0001993	8.72	0.000	.0013456	.0021316
_cons	1339.206	580.2771	2.31	0.023	185.4213	2492.991

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0694
	Largest FMI	=	0.2504
	Complete DF	=	200
DF adjustment: Small sample	DF: min	=	50.82
	avg	=	149.78
	max	=	197.53
Model F test: Equal FMI	F(12, 193.7)	=	16.77
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
LnNFLw3	21.62023	61.2676	0.35	0.725	-99.21284 142.4533
Sex					
Men	279.3688	182.5932	1.53	0.128	-80.7415 639.479
Sex#c.LnNFLw3					
Men	-158.1895	75.52586	-2.09	0.038	-307.1401 -9.238975
Sex	0 (omitted)				
w1Age	-3.800708	2.766839	-1.37	0.171	-9.257043 1.655628
Race	-90.18179	54.75171	-1.65	0.101	-198.1936 17.83003
PovStat	-68.36198	50.18031	-1.36	0.175	-167.3199 30.59597
TIME_V1SCAN	.0121813	.0342226	0.36	0.722	-.0553129 .0796755
w1BMI	1.637482	3.938103	0.42	0.679	-6.269287 9.544251
w1TotalD	-3.075141	2.462422	-1.25	0.214	-7.944546 1.794265
w1Albumin	4.03653	87.20304	0.05	0.963	-169.9272 178.0003
w1EosinPct	2.897503	12.34129	0.23	0.815	-21.78564 27.58065
ICV_volM2	.0021198	.0002076	10.21	0.000	.0017104 .0025293
_cons	1359.931	610.0842	2.23	0.029	144.0014 2575.861

407 .

408 . //ANALYSIS C//

409 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.0599
	Largest FMI	=	0.3080
	Complete DF	=	196
DF adjustment: Small sample	DF: min	=	37.51
	avg	=	160.83
	max	=	193.30
Model F test: Equal FMI	F(12, 190.8)	=	1.12
Within VCE type: OLS	Prob > F	=	0.3439

LnLesion_Vo~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.28782	.8221813	1.57	0.119	-.3341573	2.909797
Sex						
Men	3.583576	2.44416	1.47	0.144	-1.238277	8.40543
Sex#c.LnNFLw3						
Men	-1.596321	1.014107	-1.57	0.117	-3.596694	.4040523
Sex	0 (omitted)					
w1Age	.0705663	.0366883	1.92	0.056	-.0017946	.1429271
Race	.885024	.7210413	1.23	0.221	-.5374629	2.307511
PovStat	.3522671	.6651591	0.53	0.597	-.9596517	1.664186
TIME_V1SCAN	-.0000149	.0004454	-0.03	0.973	-.0008933	.0008635
w1BMI	.0510911	.0536119	0.95	0.347	-.0574871	.1596692
w1TotalD	.0166832	.0319165	0.52	0.602	-.0463567	.0797231
w1Albumin	1.191074	1.117099	1.07	0.289	-1.022111	3.404259
w1EosinPct	.1137878	.1511661	0.75	0.453	-.1851505	.4127262
ICV_volM2	1.35e-06	2.71e-06	0.50	0.617	-3.98e-06	6.69e-06
_cons	-11.35366	7.78397	-1.46	0.147	-26.75676	4.049437

```

410 .
411 . save, replace
    file finaldata_imputed.dta saved

412 .
413 . *****MODEL 6: MODEL 2+lifestyle/health-related factors*****
414 .
415 .
416 . //Overall//
417 .
418 . use finaldata_imputed,clear

419 .
420 .
421 . //ANALYSIS A//
422 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI        =     0.0174
                                   Largest FMI         =     0.0947
                                   Complete DF         =     203
DF adjustment: Small sample       DF:      min     =    133.31
                                   avg                 =    187.76
                                   max                 =    200.90
Model F test: Equal FMI           F(   9, 200.4)   =    18.46
Within VCE type: OLS              Prob > F         =    0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-1619.519	12283.24	-0.13	0.895	-25840.64	22601.6
Sex	132864	12951.79	10.26	0.000	107324.9	158403.1
w1Age	-1972.763	812.9192	-2.43	0.016	-3575.717	-369.8089
Race	-68463.2	13370.18	-5.12	0.000	-94827.37	-42099.02
PovStat	-785.0102	14883.42	-0.05	0.958	-30132.92	28562.9
TIME_V1SCAN	-23.97286	9.976131	-2.40	0.017	-43.6449	-4.300807
w1BMI	685.4178	1032.911	0.66	0.508	-1357.596	2728.432
w1curdrugs	-12748.66	16435.8	-0.78	0.439	-45219.13	19721.82
w1SRH	15316.55	8117.939	1.89	0.061	-690.7422	31323.85
_cons	1144793	68122.17	16.81	0.000	1010410	1279176

423 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0230
	Largest FMI	=	0.1389
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	100.25
	avg	=	184.50
	max	=	200.64
Model F test: Equal FMI	F(9, 200.0)	=	20.21
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-4575.559	6643.292	-0.69	0.492	-17675.56	8524.444
Sex	67337.42	6998.892	9.62	0.000	53536.6	81138.24
w1Age	-1802.672	439.4707	-4.10	0.000	-2669.248	-936.0971
Race	-47032.98	7228.92	-6.51	0.000	-61287.55	-32778.41
PovStat	508.7688	8047.819	0.06	0.950	-15360.49	16378.03
TIME_V1SCAN	-10.96704	5.415175	-2.03	0.044	-21.64643	-.2876476
w1BMI	529.9832	570.9307	0.93	0.355	-602.6923	1662.659
w1currrdrugs	-13278.55	8813.862	-1.51	0.134	-30680.01	4122.902
w1SRH	10274.62	4391.096	2.34	0.020	1615.944	18933.29
_cons	693621.1	37008.66	18.74	0.000	620594.6	766647.6

424 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0152
	Largest FMI	=	0.0902
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	137.12
	avg	=	189.33
	max	=	200.99
Model F test: Equal FMI	F(9, 200.6)	=	12.11
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	110.3053	5975.99	0.02	0.985	-11673.5	11894.11
Sex	55236.92	6306.663	8.76	0.000	42801.08	67672.76
w1Age	-520.0453	395.765	-1.31	0.190	-1300.432	260.3415
Race	-19498.31	6510.006	-3.00	0.003	-32335.15	-6661.473
PovStat	-4768.807	7245.72	-0.66	0.511	-19056.25	9518.637
TIME_V1SCAN	-11.18334	4.846636	-2.31	0.022	-20.74014	-1.626549
w1BMI	170.2521	495.6845	0.34	0.732	-808.7476	1149.252
w1currrdrugs	1996.151	8077.001	0.25	0.805	-13975.43	17967.74
w1SRH	4478.081	3952.198	1.13	0.259	-3315.011	12271.17
_cons	444544.4	33055.56	13.45	0.000	379346.1	509742.6

425 .
 426 . //ANALYSIS B//
 427 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     213
                                   Average RVI        =     0.0261
                                   Largest FMI         =     0.1949
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min      =     70.25
                                   avg                  =    184.17
                                   max                  =    199.99
Model F test:      Equal FMI      F( 10, 199.1)   =     17.48
Within VCE type:   OLS            Prob > F        =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-114.8344	40.12788	-2.86	0.005	-193.9659	-35.70281
Sex	-28.01741	55.17409	-0.51	0.612	-136.8187	80.78391
w1Age	-3.568406	2.652266	-1.35	0.180	-8.798419	1.661607
Race	-60.48925	47.04719	-1.29	0.200	-153.2628	32.28428
PovStat	-98.2908	48.55586	-2.02	0.044	-194.0384	-2.543182
TIME_V1SCAN	-.0091911	.0327784	-0.28	0.779	-.0738267	.0554444
w1BMI	.0690994	3.556723	0.02	0.985	-7.024109	7.162308
w1currrdrugs	-4.212293	53.20789	-0.08	0.937	-109.2516	100.8271
w1SRH	1.172722	26.68103	0.04	0.965	-51.43951	53.78495
ICV_volM2	.0017506	.0002012	8.70	0.000	.0013539	.0021473
_cons	1900.784	330.6897	5.75	0.000	1248.5	2553.067

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

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs     =     213
                                   Average RVI        =     0.0266
                                   Largest FMI         =     0.2159
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min      =     62.01
                                   avg                  =    185.15
                                   max                  =    200.01
Model F test:      Equal FMI      F( 10, 199.1)   =     20.06
Within VCE type:   OLS            Prob > F        =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-75.02788	41.66439	-1.80	0.073	-157.1901	7.134343
Sex	-80.32539	57.26406	-1.40	0.162	-193.2481	32.59733
w1Age	-3.241643	2.752346	-1.18	0.240	-8.668994	2.185709
Race	-54.3217	48.82801	-1.11	0.267	-150.6069	41.96348
PovStat	-80.06899	50.38021	-1.59	0.114	-179.4137	19.27574
TIME_V1SCAN	.013517	.0340326	0.40	0.692	-.0535921	.0806261
w1BMI	.4314104	3.733678	0.12	0.908	-7.032078	7.894899
w1currrdrugs	-22.6731	54.48602	-0.42	0.678	-130.1523	84.80615
w1SRH	-4.919119	27.68951	-0.18	0.859	-59.51993	49.6817
ICV_volM2	.0021395	.0002088	10.25	0.000	.0017277	.0025512
_cons	1570.339	343.4969	4.57	0.000	892.7695	2247.908

```

429 .
430 . //ANALYSIS C//
431 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_volM2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     209
                                   Average RVI         =     0.0787
                                   Largest FMI         =     0.3373
                                   Complete DF         =     198
DF adjustment:  Small sample      DF:      min      =     32.69
                                   avg                =    163.11
                                   max                =    195.79
Model F test:      Equal FMI      F( 10, 189.5)    =     1.13
Within VCE type:   OLS            Prob > F         =     0.3411

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.2974223	.5494743	0.54	0.589	-.7862967	1.381141
Sex	.1694529	.7453452	0.23	0.820	-1.300626	1.639532
w1Age	.0764052	.0363168	2.10	0.037	.0047809	.1480294
Race	.6791526	.6390866	1.06	0.289	-.5813059	1.939611
PovStat	-.003784	.6589474	-0.01	0.995	-1.303364	1.295796
TIME_V1SCAN	-.0000695	.0004394	-0.16	0.874	-.0009362	.0007971
w1BMI	.0144649	.0520617	0.28	0.783	-.0914933	.1204232
w1currrdrugs	-.2930349	.822545	-0.36	0.724	-1.959319	1.373249
w1SRH	-.5873791	.3596521	-1.63	0.104	-1.296673	.1219146
ICV_volM2	1.91e-06	2.70e-06	0.71	0.479	-3.41e-06	7.23e-06
_cons	-1.342561	4.502681	-0.30	0.766	-10.2321	7.54698

```

432 .
433 . save, replace
      file finaldata_imputed.dta saved
434 .
435 .
436 . //Males//
437 .
438 .
439 . use finaldata_imputed,clear
440 .
441 .
442 . //ANALYSIS A//
443 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH if Sex==2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     95
                                   Average RVI         =     0.0178
                                   Largest FMI         =     0.0893
                                   Complete DF         =     86
DF adjustment:  Small sample      DF:      min      =     67.82
                                   avg                =     81.05
                                   max                =     84.03
Model F test:      Equal FMI      F( 8, 83.9)      =     3.09
Within VCE type:   OLS            Prob > F         =     0.0042

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-12255.28	19511.07	-0.63	0.532	-51055.36	26544.8
Sex	0 (omitted)					
w1Age	-2329.579	1438.698	-1.62	0.109	-5190.572	531.4134
Race	-89024.65	24684.42	-3.61	0.001	-138118.4	-39930.88
PovStat	11957.08	27846.25	0.43	0.669	-43418.57	67332.73
TIME_V1SCAN	-37.50351	17.45574	-2.15	0.035	-72.21733	-2.789681
w1BMI	1894.005	2210.8	0.86	0.394	-2509.483	6297.492
w1currrdrugs	-11659.75	30928.96	-0.38	0.707	-73380.57	50061.08
w1SRH	6892.082	15121.6	0.46	0.650	-23179.5	36963.66
_cons	1477648	106655.1	13.85	0.000	1265515	1689782

444 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH if Sex==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0232
	Largest FMI	=	0.0898
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	67.70
	avg	=	80.24
	max	=	84.01
Model F test: Equal FMI	F(8, 83.8)	=	5.19
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-8108.423	10322.68	-0.79	0.434	-28636.16	12419.32
Sex	0 (omitted)					
w1Age	-2398.921	762.6193	-3.15	0.002	-3915.545	-882.2977
Race	-57287.18	13071.22	-4.38	0.000	-83284.61	-31289.76
PovStat	6598.515	14739.83	0.45	0.656	-22713.65	35910.67
TIME_V1SCAN	-19.61075	9.246852	-2.12	0.037	-38.00041	-1.221101
w1BMI	1318.567	1190.616	1.11	0.272	-1057.462	3694.596
w1currrdrugs	-12866.31	16296.69	-0.79	0.432	-45370.14	19637.52
w1SRH	9043.693	8008.286	1.13	0.262	-6882.395	24969.78
_cons	869819.4	56565.47	15.38	0.000	757301.2	982337.5

445 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH if Sex==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0222
	Largest FMI	=	0.1205
	Complete DF	=	86
DF adjustment: Small sample	DF: min	=	60.43
	avg	=	79.73
	max	=	84.00
Model F test: Equal FMI	F(8, 83.8)	=	1.70
Within VCE type: OLS	Prob > F	=	0.1114

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6307.25	9436.613	-0.67	0.506	-25073.3	12458.8
Sex	0 (omitted)					
w1Age	-489.6349	696.0593	-0.70	0.484	-1873.848	894.5779
Race	-29562.07	11950.44	-2.47	0.015	-53331.11	-5793.029
PovStat	-2727.258	13459.68	-0.20	0.840	-29493.29	24038.77
TIME_V1SCAN	-16.4336	8.435509	-1.95	0.055	-33.20885	.3416639
w1BMI	541.0353	1078.472	0.50	0.617	-1609.016	2691.086
w1currrdrugs	1309.239	15189.65	0.09	0.932	-29070.19	31688.67
w1SRH	-946.7809	7306.704	-0.13	0.897	-15477.01	13583.45
_cons	592736	51602.97	11.49	0.000	490096	695376

446 .

447 .

448 . //ANALYSIS B//

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

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 95
Average RVI = 0.0504
Largest FMI = 0.2500
Complete DF = 85
DF: min = 35.21
avg = 75.10
max = 82.93
F(9, 82.3) = 10.64
Prob > F = 0.0000

DF adjustment: Small sample

Model F test: Equal FMI
Within VCE type: OLS

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-126.8838	58.08132	-2.18	0.032	-242.4067	-11.36097
Sex	0 (omitted)					
w1Age	-3.799372	4.289323	-0.89	0.378	-12.33194	4.733197
Race	49.25601	81.30095	0.61	0.546	-112.4954	211.0075
PovStat	-192.9757	82.75395	-2.33	0.022	-357.5731	-28.37827
TIME_V1SCAN	-.0570563	.0528074	-1.08	0.283	-.1620953	.0479827
w1BMI	.8539367	7.298677	0.12	0.908	-13.95998	15.66785
w1currrdrugs	-86.53048	94.14197	-0.92	0.362	-275.1281	102.0671
w1SRH	136.1781	44.94795	3.03	0.003	46.77252	225.5837
ICV_volM2	.0020695	.0002921	7.08	0.000	.0014884	.0026505
_cons	1166.035	573.9706	2.03	0.045	24.35276	2307.717

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

Multiple-imputation estimates
Linear regression

Imputations = 5
Number of obs = 95
Average RVI = 0.0444
Largest FMI = 0.2507
Complete DF = 85
DF: min = 35.12
avg = 76.44
max = 83.01
F(9, 82.4) = 10.26
Prob > F = 0.0000

DF adjustment: Small sample

Model F test: Equal FMI
Within VCE type: OLS

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-91.82405	61.41967	-1.50	0.139	-213.9851	30.33699
Sex	0	(omitted)				
w1Age	-5.21705	4.537557	-1.15	0.254	-14.24338	3.809277
Race	31.39387	86.2315	0.36	0.717	-140.1894	202.9771
PovStat	-165.0132	87.5189	-1.89	0.063	-339.086	9.059584
TIME_V1SCAN	-.0258522	.055859	-0.46	0.645	-.1369603	.0852559
w1BMI	4.728047	7.725053	0.61	0.544	-10.95278	20.40887
w1currrdrugs	-103.3368	96.55875	-1.07	0.288	-295.9142	89.24072
w1SRH	93.52223	47.59105	1.97	0.053	-1.14351	188.188
ICV_volM2	.002344	.0003094	7.58	0.000	.0017285	.0029594
_cons	979.9899	606.762	1.62	0.110	-226.8835	2186.863

451 .

452 . //ANALYSIS C//

453 . 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	=	93
	Average RVI	=	0.2493
	Largest FMI	=	0.6695
	Complete DF	=	83
DF adjustment: Small sample	DF: min	=	8.11
	avg	=	63.87
	max	=	80.30
Model F test: Equal FMI	F(9, 71.3)	=	0.29
Within VCE type: OLS	Prob > F	=	0.9763

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.3133013	.7424552	-0.42	0.674	-1.79075	1.164147
Sex	0	(omitted)				
w1Age	.0374717	.0556678	0.67	0.503	-.0734707	.1484141
Race	.3437174	1.049481	0.33	0.744	-1.75229	2.439725
PovStat	-.5015446	1.04307	-0.48	0.632	-2.577319	1.57423
TIME_V1SCAN	.0001838	.0006542	0.28	0.780	-.0011182	.0014857
w1BMI	-.0628055	.1273032	-0.49	0.635	-.3556554	.2300444
w1currrdrugs	-.2511967	1.434617	-0.18	0.863	-3.301544	2.799151
w1SRH	-.6465561	.5640637	-1.15	0.255	-1.769186	.4760739
ICV_volM2	-7.25e-07	3.63e-06	-0.20	0.842	-7.95e-06	6.50e-06
_cons	8.957583	7.170662	1.25	0.215	-5.318433	23.2336

454 .

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

456 .

457 .

```

458 .
459 . //Females//
460 .
461 . use finaldata_imputed,clear

462 .
463 .
464 . //ANALYSIS A//
465 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0153
                                   Largest FMI         =     0.0737
                                   Complete DF        =     109
DF adjustment:  Small sample      DF:      min      =     88.76
                                   avg              =    102.41
                                   max              =    107.00
Model F test:      Equal FMI      F(   8, 106.8)   =     3.55
Within VCE type:   OLS            Prob > F        =     0.0011

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	14788.79	17065.89	0.87	0.388	-19044.28	48621.86
Sex	0 (omitted)					
w1Age	-2304.816	976.2193	-2.36	0.020	-4240.116	-369.5161
Race	-55154.06	15023.78	-3.67	0.000	-84936.96	-25371.17
PovStat	-7158.933	17646.74	-0.41	0.686	-42141.92	27824.05
TIME_V1SCAN	-10.782	11.9172	-0.90	0.368	-34.40742	12.84343
w1BMI	885.1111	1078.524	0.82	0.414	-1257.438	3027.66
w1curdrugs	-11360.91	18679.82	-0.61	0.545	-48478.67	25756.86
w1SRH	19522.81	9334.171	2.09	0.039	1018.895	38026.72
_cons	1205744	78631.52	15.33	0.000	1049776	1361711

```

466 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0226
                                   Largest FMI         =     0.0991
                                   Complete DF        =     109
DF adjustment:  Small sample      DF:      min      =     80.11
                                   avg              =     99.80
                                   max              =    106.94
Model F test:      Equal FMI      F(   8, 106.7)   =     5.24
Within VCE type:   OLS            Prob > F        =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	820.2941	9486.924	0.09	0.931	-17988.58	19629.17
Sex	0 (omitted)					
w1Age	-1598.461	542.3234	-2.95	0.004	-2673.622	-523.2987
Race	-41145.79	8338.428	-4.93	0.000	-57675.85	-24615.72
PovStat	-4889.417	9795.584	-0.50	0.619	-24308.43	14529.6
TIME_V1SCAN	-2.753398	6.626613	-0.42	0.679	-15.89127	10.38447
w1BMI	614.4043	607.6107	1.01	0.315	-594.7534	1823.562
w1curdrugs	-12813.98	10484.99	-1.22	0.225	-33675.99	8048.033
w1SRH	9112.029	5185.136	1.76	0.082	-1167.193	19391.25
_cons	721693.7	43920.05	16.43	0.000	634539.5	808848

467 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH if Sex==1

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                   Average RVI       =     0.0075
                                   Largest FMI       =     0.0415
                                   Complete DF      =     109
DF adjustment:  Small sample      DF:      min    =     98.78
                                   avg              =    105.31
                                   max              =    107.03
Model F test:      Equal FMI      F(   8, 107.0) =     1.83
Within VCE type:   OLS           Prob > F      =     0.0793

```

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	11726.58	8329.464	1.41	0.162	-4785.764	28238.93
Sex	0 (omitted)					
w1Age	-881.4955	476.8232	-1.85	0.067	-1826.745	63.75435
Race	-11700.91	7345.019	-1.59	0.114	-26261.51	2859.695
PovStat	-2548.833	8626.691	-0.30	0.768	-19650.34	14552.67
TIME_V1SCAN	-6.678976	5.818081	-1.15	0.254	-18.21266	4.854711
w1BMI	372.0029	517.2157	0.72	0.474	-653.9059	1397.912
w1currrdrugs	4861.329	8988.861	0.54	0.590	-12975.01	22697.67
w1SRH	8917.635	4565.687	1.95	0.053	-133.3936	17968.66
_cons	452457.3	38120.25	11.87	0.000	376875.4	528039.2

468 .

469 . //ANALYSIS B//

470 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_vo1M2 if

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                 Number of obs    =     118
                                   Average RVI       =     0.0337
                                   Largest FMI       =     0.2023
                                   Complete DF      =     108
DF adjustment:  Small sample      DF:      min    =     49.52
                                   avg              =     98.13
                                   max              =    105.98
Model F test:      Equal FMI      F(   9, 105.5) =     6.71
Within VCE type:   OLS           Prob > F      =     0.0000

```

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-15.11531	55.5494	-0.27	0.786	-125.2585	95.02788
Sex	0 (omitted)					
w1Age	-4.660823	3.169174	-1.47	0.144	-10.9448	1.62315
Race	-113.073	51.54147	-2.19	0.030	-215.2592	-10.88686
PovStat	-80.87272	57.06028	-1.42	0.159	-194.019	32.27355
TIME_V1SCAN	.0301318	.0384359	0.78	0.435	-.0460751	.1063387
w1BMI	1.247648	3.478252	0.36	0.721	-5.662008	8.157304
w1currrdrugs	19.20693	64.62157	0.30	0.768	-110.6204	149.0342
w1SRH	-84.41559	30.89395	-2.73	0.007	-145.6665	-23.16469
ICV_vo1M2	.0014856	.0002622	5.67	0.000	.0009658	.0020055
_cons	2152.627	423.8832	5.08	0.000	1312.06	2993.194

471 . 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    =     118
                                   Average RVI        =     0.0294
                                   Largest FMI         =     0.1583
                                   Complete DF          =     108
DF adjustment:  Small sample      DF:      min     =     60.85
                                   avg                 =     98.83
                                   max                 =    106.02
Model F test:      Equal FMI      F(   9, 105.6) =     8.17
Within VCE type:   OLS           Prob > F      =     0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	7.552388	60.24179	0.13	0.900	-111.8963	127.001
Sex	0 (omitted)					
w1Age	-3.165905	3.430979	-0.92	0.358	-9.968694	3.636883
Race	-96.65552	55.86517	-1.73	0.087	-207.4133	14.1023
PovStat	-48.06488	61.76424	-0.78	0.438	-170.5321	74.40238
TIME_V1SCAN	.0404533	.0416528	0.97	0.334	-.042131	.1230376
w1BMI	.3551116	3.803537	0.09	0.926	-7.207652	7.917875
w1currrdrugs	6.967873	68.44129	0.10	0.919	-129.896	143.8317
w1SRH	-70.33153	33.48859	-2.10	0.038	-136.7264	-3.936621
ICV_volM2	.0019858	.0002839	6.99	0.000	.0014229	.0025487
_cons	1595.979	459.3801	3.47	0.001	685.032	2506.925

472 .

473 . //ANALYSIS C//

474 . 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    =     116
                                   Average RVI        =     0.0106
                                   Largest FMI         =     0.0744
                                   Complete DF          =     106
DF adjustment:  Small sample      DF:      min     =     86.32
                                   avg                 =    101.94
                                   max                 =    103.91
Model F test:      Equal FMI      F(   9, 104.0) =     1.84
Within VCE type:   OLS           Prob > F      =     0.0691

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.296971	.9134239	1.42	0.159	-.5144638	3.108406
Sex	0 (omitted)					
w1Age	.1056509	.0513227	2.06	0.042	.0038726	.2074292
Race	1.11338	.8476624	1.31	0.192	-.5675838	2.794344
PovStat	.8019424	.9324511	0.86	0.392	-1.047267	2.651151
TIME_V1SCAN	-.00027	.0006225	-0.43	0.665	-.0015045	.0009645
w1BMI	.073039	.0548399	1.33	0.186	-.0357158	.1817937
w1currrdrugs	-.1004575	.9807013	-0.10	0.919	-2.049924	1.849009
w1SRH	-.6670543	.5033507	-1.33	0.188	-1.66525	.3311414
ICV_volM2	5.37e-06	4.24e-06	1.27	0.208	-3.04e-06	.0000138
_cons	-12.02203	6.868578	-1.75	0.083	-25.64344	1.599383


```

475 .
476 . save, replace
      file finaldata_imputed.dta saved

477 .
478 . *****INTERACTION BY Sex*****
479 .
480 .
481 . //ANALYSIS A//
482 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     213
                                   Average RVI         =    0.0149
                                   Largest FMI         =    0.0901
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min      =    136.73
                                   avg                  =    189.01
                                   max                  =    199.83
Model F test:      Equal FMI      F( 10, 199.6)    =    16.74
Within VCE type:   OLS            Prob > F         =    0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10848.03	18122.46	0.60	0.550	-24889.35	46585.41
Sex						
Men	180244.9	52139.9	3.46	0.001	77427.78	283061.9
Sex#c.LnNFLw3						
Men	-21019.57	22394.3	-0.94	0.349	-65179.66	23140.52
Sex	0 (omitted)					
w1Age	-2102.242	824.675	-2.55	0.012	-3728.424	-476.0597
Race	-68404.68	13373.8	-5.11	0.000	-94776.8	-42032.56
PovStat	1162.677	15033.03	0.08	0.938	-28481.17	30806.52
TIME_V1SCAN	-23.2107	10.01695	-2.32	0.022	-42.96402	-3.457368
w1BMI	870.8919	1051.51	0.83	0.409	-1208.434	2950.218
w1curdrugs	-13867.16	16407.62	-0.85	0.399	-46269.11	18534.79
w1SRH	14604.66	8158.071	1.79	0.075	-1482.321	30691.65
_cons	1248691	71903.59	17.37	0.000	1106846	1390537

```

483 . mi estimate: reg GM c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1curdrugs w1SRH

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     213
                                   Average RVI         =    0.0202
                                   Largest FMI         =    0.1336
                                   Complete DF         =     202
DF adjustment:  Small sample      DF:      min      =    103.46
                                   avg                  =    185.40
                                   max                  =    199.70
Model F test:      Equal FMI      F( 10, 199.4)    =    18.39
Within VCE type:   OLS            Prob > F         =    0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	3367.029	9808.389	0.34	0.732	-15976.12	22710.18
Sex						
Men	97522.04	28200.28	3.46	0.001	41910.79	153133.3
Sex#c.LnNFLw3						
Men	-13390.99	12111.02	-1.11	0.270	-37273.81	10491.83
Sex	0 (omitted)					
w1Age	-1885.158	445.3771	-4.23	0.000	-2763.404	-1006.913
Race	-46995.83	7225.049	-6.50	0.000	-61243.21	-32748.45
PovStat	1748.878	8121.623	0.22	0.830	-14266.41	17764.17
TIME_V1SCAN	-10.48084	5.436355	-1.93	0.055	-21.20271	.2410308
w1BMI	648.0817	580.4875	1.12	0.267	-503.1177	1799.281
w1currrdrugs	-13993.64	8789.979	-1.59	0.113	-31342.24	3354.969
w1SRH	9820.79	4411.248	2.23	0.027	1122.001	18519.58
_cons	742508.4	39092.77	18.99	0.000	665360.7	819656.2

484 . mi estimate: reg WM c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0129
	Largest FMI	=	0.0814
	Complete DF	=	202
DF adjustment: Small sample	DF: min	=	144.15
	avg	=	190.36
	max	=	200.00
Model F test: Equal FMI	F(10, 199.7)	=	11.01
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	6202.249	8810.381	0.70	0.482	-11171.27	23575.77
Sex						
Men	78388.75	25368.55	3.09	0.002	28363.96	128413.6
Sex#c.LnNFLw3						
Men	-10270.47	10897.35	-0.94	0.347	-31759.11	11218.18
Sex	0 (omitted)					
w1Age	-583.3143	401.538	-1.45	0.148	-1375.109	208.4804
Race	-19469.54	6511.298	-2.99	0.003	-32309.3	-6629.786
PovStat	-3815.726	7318.116	-0.52	0.603	-18246.36	10614.91
TIME_V1SCAN	-10.81181	4.864232	-2.22	0.027	-20.4036	-1.220022
w1BMI	261.0126	505.2131	0.52	0.606	-736.7434	1258.769
w1currrdrugs	1454.533	8067.238	0.18	0.857	-14490.83	17399.9
w1SRH	4130.893	3970.256	1.04	0.299	-3698.04	11959.83
_cons	485621.2	34867.44	13.93	0.000	416849.3	554393.1

485 .
 486 . //ANALYSIS B//
 487 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_vo

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0212
	Largest FMI	=	0.1827
	Complete DF	=	201
DF adjustment: Small sample	DF: min	=	75.52
	avg	=	186.05
	max	=	199.01
Model F test: Equal FMI	F(11, 198.5)	=	16.69
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-20.80565	58.85653	-0.35	0.724	-136.8826	95.27131
Sex						
Men	334.3568	175.3299	1.91	0.058	-11.41676	680.1304
Sex#c.LnNFLw3						
Men	-158.4047	72.6952	-2.18	0.031	-301.7646	-15.04485
Sex	0 (omitted)					
w1Age	-4.550921	2.666768	-1.71	0.089	-9.809713	.7078716
Race	-62.69334	46.63261	-1.34	0.180	-154.6524	29.26577
PovStat	-83.67906	48.56432	-1.72	0.086	-179.4461	12.08798
TIME_V1SCAN	-.0041176	.0325729	-0.13	0.900	-.0683504	.0601152
w1BMI	1.494145	3.573991	0.42	0.677	-5.624809	8.6131
w1currrdrugs	-13.02743	52.37117	-0.25	0.804	-116.3557	90.30082
w1SRH	-3.699007	26.52725	-0.14	0.889	-56.00958	48.61157
ICV_vo1M2	.0017204	.0001999	8.61	0.000	.0013262	.0021146
_cons	1696.167	356.4207	4.76	0.000	993.1865	2399.147

488 . mi estimate: reg Right_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_vo

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0229
	Largest FMI	=	0.2066
	Complete DF	=	201
DF adjustment: Small sample	DF: min	=	65.34
	avg	=	185.68
	max	=	198.96
Model F test: Equal FMI	F(11, 198.4)	=	19.00
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	18.59786	61.25258	0.30	0.762	-102.211	139.4068
Sex						
Men	280.4936	182.436	1.54	0.126	-79.30947	640.2967
Sex#c.LnNFLw3						
Men	-157.7247	75.62662	-2.09	0.038	-306.8703	-8.57905
Sex	0 (omitted)					
w1Age	-4.219935	2.770116	-1.52	0.129	-9.682519	1.24265
Race	-56.51798	48.44811	-1.17	0.245	-152.0574	39.02142

PovStat	-65.52413	50.44242	-1.30	0.195	-164.9945	33.94625
TIME_V1SCAN	.0185709	.0338654	0.55	0.584	-.0482115	.0853533
w1BMI	1.850345	3.760955	0.49	0.624	-5.660053	9.360743
w1currrdrugs	-31.46573	53.87022	-0.58	0.560	-137.7098	74.77835
w1SRH	-9.772362	27.56442	-0.35	0.723	-64.12836	44.58364
ICV_volM2	.0021094	.0002077	10.16	0.000	.0016999	.0025189
_cons	1314.191	370.7317	3.54	0.000	582.9533	2045.429

489 .

490 . //ANALYSIS C//

491 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currrdrugs w1SRH ICV_vol

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.0732
	Largest FMI	=	0.3436
	Complete DF	=	197
DF adjustment: Small sample	DF: min	=	31.71
	avg	=	163.78
	max	=	194.68
Model F test: Equal FMI	F(11, 189.9)	=	1.35
Within VCE type: OLS	Prob > F	=	0.1995

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.423116	.8144611	1.75	0.082	-.1836428	3.029875
Sex						
Men	4.495317	2.425514	1.85	0.065	-.2896592	9.280293
Sex#c.LnNFLw3						
Men	-1.899671	1.010771	-1.88	0.062	-3.893481	.0941395
Sex	0 (omitted)					
w1Age	.0664304	.0365134	1.82	0.070	-.0055859	.1384466
Race	.6797753	.634938	1.07	0.286	-.5725414	1.932092
PovStat	.1857294	.6627687	0.28	0.780	-1.121447	1.492906
TIME_V1SCAN	-.0000162	.0004377	-0.04	0.971	-.0008794	.000847
w1BMI	.0304461	.0529163	0.58	0.569	-.0773794	.1382715
w1currrdrugs	-.4083535	.8182199	-0.50	0.621	-2.064732	1.248025
w1SRH	-.6553968	.3591787	-1.82	0.070	-1.363781	.0529875
ICV_volM2	1.58e-06	2.69e-06	0.59	0.558	-3.72e-06	6.87e-06
_cons	-3.377185	4.891345	-0.69	0.491	-13.03272	6.278347

492 .

493 . save, replace
file finaldata_imputed.dta saved

494 .

495 .

510 . reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ,beta

Source	SS	df	MS	Number of obs	=	213
Model	2.1155e+11	6	3.5259e+10	F(6, 206)	=	18.38
Residual	3.9525e+11	206	1.9187e+09	Prob > F	=	0.0000
				R-squared	=	0.3486
				Adj R-squared	=	0.3297
Total	6.0680e+11	212	2.8623e+09	Root MSE	=	43803

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-730.6776	5853.843	-0.12	0.901	-.0081431
Sex	55748.93	6158.252	9.05	0.000	.5191913
w1Age	-515.5662	391.3352	-1.32	0.189	-.0883012
Race	-19191.71	6415.673	-2.99	0.003	-.1776133
PovStat	-6111.101	7112.437	-0.86	0.391	-.053376
TIME_V1SCAN	-10.54662	4.775266	-2.21	0.028	-.1322144
_cons	460690.7	26113.59	17.64	0.000	.

511 .

512 . //ANALYSIS B//

513 . reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 ,beta

Source	SS	df	MS	Number of obs	=	213
Model	15577401.3	7	2225343.05	F(7, 205)	=	26.01
Residual	17542101.3	205	85571.2259	Prob > F	=	0.0000
				R-squared	=	0.4703
				Adj R-squared	=	0.4523
Total	33119502.6	212	156224.069	Root MSE	=	292.53

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-115.243	39.0945	-2.95	0.004	-.1738436
Sex	-28.36787	54.04536	-0.52	0.600	-.03576
w1Age	-3.533937	2.613485	-1.35	0.178	-.0819259
Race	-60.35169	46.28436	-1.30	0.194	-.0756017
PovStat	-98.11719	47.51394	-2.07	0.040	-.1159984
TIME_V1SCAN	-.009188	.0321556	-0.29	0.775	-.0155908
ICV_volM2	.0017547	.0001975	8.88	0.000	.6411886
_cons	1898.465	304.9054	6.23	0.000	.

514 . reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 ,beta

Source	SS	df	MS	Number of obs	=	213
Model	19243178.6	7	2749025.52	F(7, 205)	=	29.79
Residual	18916674.5	205	92276.461	Prob > F	=	0.0000
				R-squared	=	0.5043
				Adj R-squared	=	0.4874
Total	38159853.1	212	179999.307	Root MSE	=	303.77

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-75.72912	40.59731	-1.87	0.064	-.1064255
Sex	-82.11941	56.12288	-1.46	0.145	-.0964396
w1Age	-3.093175	2.713949	-1.14	0.256	-.0668044
Race	-56.02866	48.06356	-1.17	0.245	-.0653869
PovStat	-77.39229	49.3404	-1.57	0.118	-.0852399
TIME_V1SCAN	.0117322	.0333917	0.35	0.726	.0185466
ICV_volM2	.002144	.0002051	10.45	0.000	.7298842
_cons	1561.142	316.6261	4.93	0.000	.

```

515 .
516 . //ANALYSIS C//
517 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 ,beta

```

Source	SS	df	MS	Number of obs	=	209
Model	143.0494	7	20.4356285	F(7, 201)	=	1.31
Residual	3131.43476	201	15.5792774	Prob > F	=	0.2463
				R-squared	=	0.0437
				Adj R-squared	=	0.0104
Total	3274.48416	208	15.7427123	Root MSE	=	3.9471

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	.3321878	.5401326	0.62	0.539	.0490727
Sex	.1197849	.7339493	0.16	0.871	.0150393
w1Age	.0769581	.0359844	2.14	0.034	.1762324
Race	.6094322	.6320866	0.96	0.336	.0760177
PovStat	.1219654	.6506785	0.19	0.852	.0143805
TIME_V1SCAN	-.0001764	.0004348	-0.41	0.685	-.030088
ICV_volM2	1.50e-06	2.67e-06	0.56	0.576	.0546972
_cons	-1.58836	4.130742	-0.38	0.701	.

```

518 .
519 .
520 . **Model 2**
521 .
522 . use finaldata_imputed,clear

523 .
524 .
525 . //ANALYSIS A//
526 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0015
	Largest FMI	=	0.0134
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	197.71
	avg	=	201.50
	max	=	202.02
Model F test: Equal FMI	F(8, 202.0)	=	446.97
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-3888.774	3833.722	-1.01	0.312	-11448.03	3670.478
Sex	-13497.29	5290.956	-2.55	0.011	-23929.89	-3064.695
w1Age	-1778.365	253.5502	-7.01	0.000	-2278.31	-1278.421
Race	4541.76	4486.244	1.01	0.313	-4304.108	13387.63
PovStat	909.7666	4604.085	0.20	0.844	-8168.459	9987.992
TIME_V1SCAN	-5.182184	3.115292	-1.66	0.098	-11.32484	.9604763
w1BMI	-34.5637	307.8658	-0.11	0.911	-641.6858	572.5584
ICV_volM2	.8357852	.0191543	43.63	0.000	.7980171	.8735532
_cons	140053.5	30952.11	4.52	0.000	79022.42	201084.6

527 . mi estimate: reg GM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0083
	Largest FMI	=	0.0697
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	155.66
	avg	=	196.57
	max	=	202.01
Model F test: Equal FMI	F(8, 201.8)	=	167.61
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-5997.777	3306.789	-1.81	0.071	-12518.12	522.5628
Sex	-4970.972	4562.866	-1.09	0.277	-13968.03	4026.082
w1Age	-1667.691	218.5219	-7.63	0.000	-2098.568	-1236.814
Race	-11347.37	3868.065	-2.93	0.004	-18974.38	-3720.357
PovStat	1218.831	3967.645	0.31	0.759	-6604.479	9042.141
TIME_V1SCAN	-1.435645	2.68542	-0.53	0.594	-6.730715	3.859425
w1BMI	229.6488	272.8487	0.84	0.401	-309.315	768.6127
ICV_volM2	.4175966	.0165139	25.29	0.000	.3850347	.4501585
_cons	192853.2	26720.62	7.22	0.000	140164.3	245542.2

528 . mi estimate: reg WM LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0142
	Largest FMI	=	0.1173
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	115.73
	avg	=	191.85
	max	=	201.96
Model F test: Equal FMI	F(8, 201.5)	=	146.31
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-649.4409	2829.084	-0.23	0.819	-6227.862	4928.981
Sex	-11122.81	3904.541	-2.85	0.005	-18821.84	-3423.784
w1Age	-474.5218	186.9309	-2.54	0.012	-843.1091	-105.9345
Race	14084.23	3308.421	4.26	0.000	7560.718	20607.74
PovStat	-3985.543	3393.939	-1.17	0.242	-10677.64	2706.556
TIME_V1SCAN	-2.853504	2.297481	-1.24	0.216	-7.383657	1.676649
w1BMI	-219.5718	239.0684	-0.92	0.360	-693.0885	253.945
ICV_volM2	.3743214	.0141249	26.50	0.000	.3464701	.4021727
_cons	-5643.35	22916.81	-0.25	0.806	-50834.42	39547.72

529 .
530 . //ANALYSIS B//
531 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0232
	Largest FMI	=	0.1862
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	74.41
	avg	=	186.74
	max	=	201.96
Model F test: Equal FMI	F(8, 200.8)	=	22.06
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-114.912	39.80022	-2.89	0.004	-193.3925	-36.43151
Sex	-28.01044	54.90005	-0.51	0.610	-136.2647	80.24383
w1Age	-3.54018	2.626396	-1.35	0.179	-8.718876	1.638515
Race	-60.78022	46.46422	-1.31	0.192	-152.3976	30.83717
PovStat	-98.25743	47.67886	-2.06	0.041	-192.2697	-4.245177
TIME_V1SCAN	-.0090553	.0322594	-0.28	0.779	-.0726637	.0545531
w1BMI	.1220003	3.481604	0.04	0.972	-6.814617	7.058618
ICV_volM2	.001753	.0001984	8.84	0.000	.0013617	.0021442
_cons	1896.691	323.1714	5.87	0.000	1259.339	2534.044

532 . mi estimate: reg Right_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0253
	Largest FMI	=	0.2007
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	68.11
	avg	=	185.93
	max	=	201.95
Model F test: Equal FMI	F(8, 200.6)	=	25.23
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-74.3155	41.33851	-1.80	0.074	-155.8298	7.198816
Sex	-80.34781	57.01562	-1.41	0.160	-192.7741	32.07847
w1Age	-3.130175	2.727121	-1.15	0.252	-8.507482	2.247132
Race	-56.888	48.24956	-1.18	0.240	-152.0258	38.24982
PovStat	-77.18143	49.50466	-1.56	0.121	-174.7937	20.43087
TIME_V1SCAN	.0120998	.0334962	0.36	0.718	-.0539474	.078147
w1BMI	.664474	3.643313	0.18	0.856	-6.605427	7.934375
ICV_volM2	.0021402	.000206	10.39	0.000	.0017339	.0025464
_cons	1543.062	335.7266	4.60	0.000	880.9358	2205.188

```

533 .
534 . //ANALYSIS C//
535 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.0489
	Largest FMI	=	0.3373
	Complete DF	=	200
DF adjustment: Small sample	DF: min	=	32.76
	avg	=	176.65
	max	=	197.87
Model F test: Equal FMI	F(8, 193.5)	=	1.11
Within VCE type: OLS	Prob > F	=	0.3592

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	.3676558	.5495713	0.67	0.504	-.7162044	1.451516
Sex	.1671199	.7465598	0.22	0.823	-1.305228	1.639467
w1Age	.0758747	.0361486	2.10	0.037	.0045882	.1471613
Race	.602223	.6339139	0.95	0.343	-.6478723	1.852318
PovStat	.138031	.6523179	0.21	0.833	-1.148357	1.424419
TIME_V1SCAN	-.0001694	.000436	-0.39	0.698	-.0010291	.0006903
w1BMI	.0192634	.0515334	0.37	0.711	-.0856107	.1241375
ICV_volM2	1.44e-06	2.68e-06	0.54	0.592	-3.85e-06	6.72e-06
_cons	-2.19639	4.421165	-0.50	0.620	-10.92117	6.528393

```

536 .
537 . save, replace
    file finaldata_imputed.dta saved

538 .
539 . *****MALES*****
540 .
541 . **Model 1**
542 .
543 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear

```

544 .
 545 . //ANALYSIS A//
 546 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN if Sex==2,beta
 note: **Sex** omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	95
				F(5, 89)	=	4.88
Model	2.7085e+11	5	5.4171e+10	Prob > F	=	0.0005
Residual	9.8848e+11	89	1.1107e+10	R-squared	=	0.2151
				Adj R-squared	=	0.1710
Total	1.2593e+12	94	1.3397e+10	Root MSE	=	1.1e+05

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-13942.19	18869.9	-0.74	0.462	-.0781548
Sex	0 (omitted)				.
w1Age	-2091.126	1388.237	-1.51	0.136	-.1616415
Race	-89298.15	23262.47	-3.84	0.000	-.3815363
PovStat	10509.56	27268.38	0.39	0.701	.0391005
TIME_V1SCAN	-35.59424	16.95326	-2.10	0.039	-.202798
_cons	1535369	89022.09	17.25	0.000	.

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

Source	SS	df	MS	Number of obs	=	95
				F(5, 89)	=	7.71
Model	1.2328e+11	5	2.4656e+10	Prob > F	=	0.0000
Residual	2.8446e+11	89	3.1962e+09	R-squared	=	0.3023
				Adj R-squared	=	0.2632
Total	4.0774e+11	94	4.3377e+09	Root MSE	=	56535

GM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-9941.73	10122.73	-0.98	0.329	-.0979411
Sex	0 (omitted)				.
w1Age	-2251.474	744.7178	-3.02	0.003	-.3058565
Race	-58710.21	12479.12	-4.70	0.000	-.4408445
PovStat	5974.411	14628.08	0.41	0.684	.0390635
TIME_V1SCAN	-17.68759	9.094548	-1.94	0.055	-.177105
_cons	921321.8	47755.76	19.29	0.000	.

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

Source	SS	df	MS	Number of obs	=	95
				F(5, 89)	=	2.80
Model	3.5966e+10	5	7.1931e+09	Prob > F	=	0.0214
Residual	2.2854e+11	89	2.5679e+09	R-squared	=	0.1360
				Adj R-squared	=	0.0874
Total	2.6451e+11	94	2.8139e+09	Root MSE	=	50674

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-6431.106	9073.38	-0.71	0.480	-.0786613
Sex	0 (omitted)				.
w1Age	-409.0684	667.5183	-0.61	0.542	-.0689953
Race	-28487.26	11185.5	-2.55	0.013	-.2655798
PovStat	-3303.478	13111.69	-0.25	0.802	-.0268176
TIME_V1SCAN	-16.25369	8.151782	-1.99	0.049	-.202063
_cons	601303.6	42805.27	14.05	0.000	.

549 .

550 . //ANALYSIS B//

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

Source	SS	df	MS	Number of obs	=	95
Model	9008502.37	6	1501417.06	F(6, 88)	=	13.84
Residual	9546505.14	88	108483.013	Prob > F	=	0.0000
				R-squared	=	0.4855
				Adj R-squared	=	0.4504
Total	18555007.5	94	197393.697	Root MSE	=	329.37

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-154.1592	59.15658	-2.61	0.011	-.2251306
Sex	0 (omitted)				.
w1Age	-4.341722	4.339255	-1.00	0.320	-.0874329
Race	26.6877	80.44855	0.33	0.741	.0297061
PovStat	-176.0936	85.26756	-2.07	0.042	-.1706795
TIME_V1SCAN	-.0343596	.0539102	-0.64	0.526	-.0510002
ICV_volM2	.0020748	.0003026	6.86	0.000	.6006324
_cons	1533.561	579.2925	2.65	0.010	.

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

Source	SS	df	MS	Number of obs	=	95
Model	10103109.5	6	1683851.58	F(6, 88)	=	14.55
Residual	10183368.7	88	115720.099	Prob > F	=	0.0000
				R-squared	=	0.4980
				Adj R-squared	=	0.4638
Total	20286478.2	94	215813.598	Root MSE	=	340.18

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-109.0851	61.09794	-1.79	0.078	-.1523553
Sex	0 (omitted)				.
w1Age	-4.98442	4.481658	-1.11	0.269	-.0959964
Race	13.72325	83.08866	0.17	0.869	.0146089
PovStat	-160.5514	88.06582	-1.82	0.072	-.1488261
TIME_V1SCAN	-.0090344	.0556794	-0.16	0.871	-.0128248
ICV_volM2	.0023636	.0003125	7.56	0.000	.654403
_cons	1294.411	598.3033	2.16	0.033	.

```

553 .
554 . //ANALYSIS C//
555 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if Sex==2,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	93
Model	17.3508512	6	2.89180853	F(6, 86)	=	0.19
Residual	1317.44955	86	15.3191808	Prob > F	=	0.9792
				R-squared	=	0.0130
				Adj R-squared	=	-0.0559
Total	1334.8004	92	14.5087	Root MSE	=	3.914

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-.1117761	.7232794	-0.15	0.878	-.0187745
Sex	0 (omitted)				.
w1Age	.0316926	.053391	0.59	0.554	.0736853
Race	.1883807	.9614687	0.20	0.845	.0244433
PovStat	-.6016125	1.026998	-0.59	0.560	-.0685141
TIME_V1SCAN	.0000173	.0006409	0.03	0.978	.0030335
ICV_volM2	-1.02e-06	3.60e-06	-0.28	0.778	-.0346103
_cons	6.566197	6.90009	0.95	0.344	.

```

556 .
557 .
558 . **Model 2**
559 .
560 . use finaldata_imputed,clear

561 .
562 .
563 . //ANALYSIS A//
564 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Sex==2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0085
	Largest FMI	=	0.0512
	Complete DF	=	88
DF adjustment: Small sample	DF: min	=	78.10
	avg	=	84.64
	max	=	86.03
Model F test: Equal FMI	F(6, 86.0)	=	4.18
Within VCE type: OLS	Prob > F	=	0.0010

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-13071.05	18909.13	-0.69	0.491	-50661.44	24519.34
Sex	0 (omitted)					
w1Age	-2373.466	1422.182	-1.67	0.099	-5200.657	453.7262
Race	-92003.02	23467.33	-3.92	0.000	-138655.9	-45350.17
PovStat	12503.04	27387.95	0.46	0.649	-41942.26	66948.33
TIME_V1SCAN	-36.73238	17.01	-2.16	0.034	-70.5472	-2.917564
w1BMI	2020.28	2174.079	0.93	0.356	-2307.888	6348.448
_cons	1493681	99767.36	14.97	0.000	1295303	1692059

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0138
	Largest FMI	=	0.0804
	Complete DF	=	88
DF adjustment: Small sample	DF: min	=	71.41
	avg	=	83.53
	max	=	86.01
Model F test: Equal FMI	F(6, 85.9)	=	6.66
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-9325.69	10100.67	-0.92	0.358	-29405.45	10754.07
Sex	0 (omitted)					
w1Age	-2458.604	760.1477	-3.23	0.002	-3969.759	-947.4492
Race	-60690.18	12546.15	-4.84	0.000	-85632.72	-35747.64
PovStat	7402.92	14626.98	0.51	0.614	-21674.49	36480.33
TIME_V1SCAN	-18.48961	9.083827	-2.04	0.045	-36.54767	-.431544
w1BMI	1472.778	1177.947	1.25	0.215	-875.7512	3821.306
_cons	891041.3	53410.02	16.68	0.000	784827.9	997254.7

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0101
	Largest FMI	=	0.0671
	Complete DF	=	88
DF adjustment: Small sample	DF: min	=	74.55
	avg	=	84.11
	max	=	86.01
Model F test: Equal FMI	F(6, 86.0)	=	2.33
Within VCE type: OLS	Prob > F	=	0.0389

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-6191.076	9122.486	-0.68	0.499	-24325.97	11943.82
Sex	0 (omitted)					
w1Age	-481.787	686.839	-0.70	0.485	-1847.205	883.6307
Race	-29178.24	11318.25	-2.58	0.012	-51678.44	-6678.053
PovStat	-2757.278	13216.58	-0.21	0.835	-29030.9	23516.35
TIME_V1SCAN	-16.57417	8.208053	-2.02	0.047	-32.89125	-.2570945
w1BMI	525.457	1057.405	0.50	0.621	-1581.208	2632.122
_cons	590382	48185.96	12.25	0.000	494564.8	686199.2

567 .

568 . //ANALYSIS B//

569 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0403
	Largest FMI	=	0.2405
	Complete DF	=	87
DF adjustment: Small sample	DF: min	=	37.09
	avg	=	78.68
	max	=	84.98
Model F test: Equal FMI	F(7, 84.3)	=	11.33
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-152.8143	59.44763	-2.57	0.012	-271.0124	-34.61608
Sex	0 (omitted)					
w1Age	-4.695945	4.479479	-1.05	0.297	-13.6037	4.211813
Race	20.67702	81.97659	0.25	0.801	-142.3362	183.6903
PovStat	-174.0383	85.96821	-2.02	0.046	-344.9669	-3.109621
TIME_V1SCAN	-.0363166	.0543822	-0.67	0.506	-.1444461	.0718128
w1BMI	2.814903	7.553873	0.37	0.712	-12.48945	18.11926
ICV_volM2	.0020603	.0003056	6.74	0.000	.0014527	.0026679
_cons	1498.593	590.0933	2.54	0.013	325.2354	2671.952

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	95
	Average RVI	=	0.0385
	Largest FMI	=	0.2271
	Complete DF	=	87
DF adjustment: Small sample	DF: min	=	39.21
	avg	=	78.95
	max	=	85.04
Model F test: Equal FMI	F(7, 84.4)	=	12.12
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-106.6483	61.18784	-1.74	0.085	-228.3074	15.01078
Sex	0 (omitted)					
w1Age	-5.83344	4.605214	-1.27	0.209	-14.99089	3.324009
Race	1.587025	84.45828	0.02	0.985	-166.3696	169.5436
PovStat	-154.8648	88.42783	-1.75	0.083	-330.6817	20.95205
TIME_V1SCAN	-.0132915	.0559536	-0.24	0.813	-.1245448	.0979619
w1BMI	6.270742	7.715864	0.81	0.421	-9.333332	21.87482
ICV_volM2	.0023351	.0003146	7.42	0.000	.0017095	.0029606
_cons	1212.647	606.8757	2.00	0.049	5.943328	2419.351

```

571 .
572 . //ANALYSIS C//
573 . mi estimate: reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==2

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     93
                                   Average RVI         =    0.2288
                                   Largest FMI          =    0.6769
                                   Complete DF          =     85
DF adjustment:  Small sample      DF:      min      =    7.97
                                   avg                  =   70.94
                                   max                  =   82.97
Model F test:      Equal FMI      F(   7,   71.5)  =    0.21
Within VCE type:   OLS            Prob > F        =    0.9813

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-.1273497	.7203547	-0.18	0.860	-1.560114	1.305414
Sex	0 (omitted)					
w1Age	.0400171	.0554504	0.72	0.473	-.0704253	.1504596
Race	.3229853	.987053	0.33	0.744	-1.642414	2.288385
PovStat	-.6620259	1.03167	-0.64	0.523	-2.714273	1.390221
TIME_V1SCAN	.0000587	.0006433	0.09	0.928	-.0012211	.0013384
w1BMI	-.0686115	.1274663	-0.54	0.605	-.3627143	.2254913
ICV_volM2	-7.01e-07	3.63e-06	-0.19	0.847	-7.92e-06	6.52e-06
_cons	7.488988	7.083298	1.06	0.294	-6.612608	21.59058

```

574 .
575 . save, replace
      file finaldata_imputed.dta saved
576 .
577 .
578 . *****FEMALES*****
579 .
580 . **Model 1**
581 .
582 . use HANDLS_paper51_NFLBRAINSKANFINALIZED,clear
583 .
584 . //ANALYSIS A//
585 . reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN if Sex==1,beta
      note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	118
Model	1.3323e+11	5	2.6647e+10	F(5, 112)	=	4.48
Residual	6.6658e+11	112	5.9516e+09	Prob > F	=	0.0009
				R-squared	=	0.1666
				Adj R-squared	=	0.1294
Total	7.9982e+11	117	6.8360e+09	Root MSE	=	77147

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	7439.995	16556.35	0.45	0.654	.0491068
Sex	0 (omitted)				.
w1Age	-1999.241	968.9494	-2.06	0.041	-.2265335
Race	-55805.95	15212.09	-3.67	0.000	-.3357892
PovStat	-15778.06	16881.21	-0.93	0.352	-.0930862
TIME_V1SCAN	-9.46051	11.76166	-0.80	0.423	-.0780659
_cons	1282365	57273.3	22.39	0.000	.

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

Source	SS	df	MS	Number of obs	=	118
Model	6.4319e+10	5	1.2864e+10	F(5, 112)	=	6.96
Residual	2.0697e+11	112	1.8479e+09	Prob > F	=	0.0000
				R-squared	=	0.2371
				Adj R-squared	=	0.2030
Total	2.7129e+11	117	2.3187e+09	Root MSE	=	42987

GM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-4220.428	9225.455	-0.46	0.648	-.0478307
Sex	0 (omitted)				.
w1Age	-1369.391	539.9138	-2.54	0.013	-.2664258
Race	-41606.22	8476.412	-4.91	0.000	-.429859
PovStat	-7939.774	9406.476	-0.84	0.400	-.0804306
TIME_V1SCAN	-3.018902	6.553783	-0.46	0.646	-.0427738
_cons	761962.2	31913.57	23.88	0.000	.

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

Source	SS	df	MS	Number of obs	=	118
Model	1.4523e+10	5	2.9047e+09	F(5, 112)	=	2.07
Residual	1.5703e+11	112	1.4021e+09	Prob > F	=	0.0742
				R-squared	=	0.0847
				Adj R-squared	=	0.0438
Total	1.7156e+11	117	1.4663e+09	Root MSE	=	37445

WM	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	9464.468	8035.906	1.18	0.241	.1348823
Sex	0 (omitted)				.
w1Age	-846.5553	470.2962	-1.80	0.075	-.2071155
Race	-11835.77	7383.446	-1.60	0.112	-.1537704
PovStat	-7963.77	8193.586	-0.97	0.333	-.1014472
TIME_V1SCAN	-5.258754	5.708724	-0.92	0.359	-.0936957
_cons	491393.4	27798.57	17.68	0.000	.

588 .

589 .

590 . //ANALYSIS B//

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

Source	SS	df	MS	Number of obs	=	118
Model	3268831.35	6	544805.225	F(6, 111)	=	8.68
Residual	6964316.48	111	62741.5899	Prob > F	=	0.0000
				R-squared	=	0.3194
				Adj R-squared	=	0.2826
Total	10233147.8	117	87462.802	Root MSE	=	250.48

Left_Hippo~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	-5.467951	54.00083	-0.10	0.920	-.0100898
Sex	0 (omitted)				.
w1Age	-5.577494	3.153189	-1.77	0.080	-.1766839
Race	-123.5938	52.51341	-2.35	0.020	-.2079091
PovStat	-46.07589	54.96867	-0.84	0.404	-.0759969
TIME_V1SCAN	.0131579	.0382497	0.34	0.731	.0303546
ICV_volM2	.0013145	.0002565	5.13	0.000	.4411006
_cons	2257.655	403.1755	5.60	0.000	.

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

Source	SS	df	MS	Number of obs	=	118
Model	5022145.99	6	837024.331	F(6, 111)	=	11.70
Residual	7940500.86	111	71536.0438	Prob > F	=	0.0000
				R-squared	=	0.3874
				Adj R-squared	=	0.3543
Total	12962646.9	117	110791.853	Root MSE	=	267.46

Right_Hipp~s	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	17.67871	57.6614	0.31	0.760	.0289846
Sex	0 (omitted)				.
w1Age	-3.865998	3.366935	-1.15	0.253	-.1088121
Race	-105.2985	56.07314	-1.88	0.063	-.1573827
PovStat	-17.20503	58.69484	-0.29	0.770	-.0252136
TIME_V1SCAN	.0266185	.0408425	0.65	0.516	.0545605
ICV_volM2	.0018443	.0002739	6.73	0.000	.5498929
_cons	1648.555	430.5057	3.83	0.000	.

593 .
594 . //ANALYSIS C//
595 . reg LnLesion_Volume LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if Sex==1,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	116
Model	201.295309	6	33.5492182	F(6, 109)	=	2.12
Residual	1726.56254	109	15.8400233	Prob > F	=	0.0569
				R-squared	=	0.1044
				Adj R-squared	=	0.0551
Total	1927.85785	115	16.7639813	Root MSE	=	3.98

LnLesion_V~e	Coefficient	Std. err.	t	P> t	Beta
LnNFLw3	1.036071	.8768778	1.18	0.240	.1346558
Sex	0 (omitted)				.
w1Age	.1038047	.0502776	2.06	0.041	.2354836
Race	1.038382	.8479202	1.22	0.223	.1261385
PovStat	1.070467	.89166	1.20	0.233	.1274088
TIME_V1SCAN	-.0005077	.0006102	-0.83	0.407	-.085217
ICV_volM2	4.61e-06	4.08e-06	1.13	0.261	.1126294
_cons	-9.411623	6.457405	-1.46	0.148	.

```

596 .
597 .
598 . **Model 2**
599 .
600 . use finaldata_imputed,clear

601 .
602 .
603 . //ANALYSIS A//
604 . mi estimate: reg TOTALBRAIN LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI if Sex==1

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0086
                                   Largest FMI          =     0.0569
                                   Complete DF          =     111
DF adjustment:  Small sample      DF:      min      =     95.83
                                   avg                  =    106.60
                                   max                  =    109.05
Model F test:      Equal FMI      F(   6, 108.9)   =     3.83
Within VCE type:   OLS           Prob > F        =     0.0017

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	11664.53	17242.98	0.68	0.500	-22512.76	45841.82
Sex	0 (omitted)					
w1Age	-2042.299	970.9964	-2.10	0.038	-3966.787	-117.8112
Race	-55634.88	15226.41	-3.65	0.000	-85813.03	-25456.73
PovStat	-15069.95	16913.38	-0.89	0.375	-48591.55	18451.65
TIME_V1SCAN	-8.022996	11.88621	-0.67	0.501	-31.58147	15.53547
w1BMI	942.2224	1063.187	0.89	0.378	-1168.237	3052.681
_cons	1242711	72695.35	17.09	0.000	1098587	1386835

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs     =     118
                                   Average RVI         =     0.0112
                                   Largest FMI          =     0.0714
                                   Complete DF          =     111
DF adjustment:  Small sample      DF:      min      =     91.00
                                   avg                  =    105.71
                                   max                  =    109.04
Model F test:      Equal FMI      F(   6, 108.9)   =     6.03
Within VCE type:   OLS           Prob > F        =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-962.4555	9583.947	-0.10	0.920	-19959.37	18034.45
Sex	0 (omitted)					
w1Age	-1402.329	539.2793	-2.60	0.011	-2471.171	-333.4868
Race	-41469.05	8455.69	-4.90	0.000	-58227.94	-24710.16
PovStat	-7386.172	9391.892	-0.79	0.433	-26000.52	11228.18
TIME_V1SCAN	-1.909788	6.603058	-0.29	0.773	-14.99721	11.17763
w1BMI	727.7466	594.6157	1.22	0.224	-453.3844	1908.878
_cons	731318.6	40449.87	18.08	0.000	651115.9	811521.2

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0054
	Largest FMI	=	0.0370
	Complete DF	=	111
DF adjustment: Small sample	DF: min	=	101.81
	avg	=	107.69
	max	=	109.05
Model F test: Equal FMI	F(6, 109.0)	=	1.76
Within VCE type: OLS	Prob > F	=	0.1142

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10732.89	8379.69	1.28	0.203	-5875.967	27341.75
Sex	0 (omitted)					
w1Age	-859.6054	472.3231	-1.82	0.072	-1795.733	76.52207
Race	-11786.88	7407.452	-1.59	0.114	-26468.14	2894.38
PovStat	-7756.315	8228.514	-0.94	0.348	-24064.88	8552.246
TIME_V1SCAN	-4.828531	5.780349	-0.84	0.405	-16.28507	6.628005
w1BMI	282.092	512.1829	0.55	0.583	-733.8436	1298.028
_cons	479529.5	35258.03	13.60	0.000	409636.8	549422.2

607 .

608 . //ANALYSIS B//

609 . mi estimate: reg Left_Hippocampus LnNFLw3 Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if Sex==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	118
	Average RVI	=	0.0080
	Largest FMI	=	0.0549
	Complete DF	=	110
DF adjustment: Small sample	DF: min	=	95.65
	avg	=	106.35
	max	=	108.05
Model F test: Equal FMI	F(7, 108.0)	=	7.36
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.920339	56.52328	0.03	0.973	-110.1253	113.9659
Sex	0 (omitted)					
w1Age	-5.662778	3.1693	-1.79	0.077	-11.94488	.6193188
Race	-124.2706	52.71846	-2.36	0.020	-228.7674	-19.77377
PovStat	-45.15114	55.20893	-0.82	0.415	-154.5842	64.28196
TIME_V1SCAN	.0154596	.0387215	0.40	0.690	-.0612938	.0922129
w1BMI	1.580283	3.475508	0.45	0.650	-5.318872	8.479439
ICV_volM2	.0013017	.0002588	5.03	0.000	.0007888	.0018147
_cons	2209.116	419.2316	5.27	0.000	1378.107	3040.126

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

```

Multiple-imputation estimates
Linear regression
                                Imputations      =          5
                                Number of obs      =         118
                                Average RVI         =         0.0107
                                Largest FMI         =         0.0733
                                Complete DF         =         110
DF adjustment:  Small sample
                                DF:      min       =         89.61
                                avg       =        105.55
                                max       =        108.05
Model F test:      Equal FMI      F(   7, 107.9) =         9.84
Within VCE type:   OLS           Prob > F      =         0.0000

```

Right_Hipp~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	21.17232	60.42983	0.35	0.727	-98.61894	140.9636
Sex	0 (omitted)					
w1Age	-3.910295	3.386482	-1.15	0.251	-10.62287	2.802284
Race	-105.7767	56.32989	-1.88	0.063	-217.4317	5.87842
PovStat	-16.88906	58.99684	-0.29	0.775	-133.8305	100.0524
TIME_V1SCAN	.0276748	.0413806	0.67	0.505	-.0543495	.1096991
w1BMI	.7271053	3.747972	0.19	0.847	-6.719334	8.173545
ICV_volM2	.0018377	.0002765	6.65	0.000	.0012896	.0023857
_cons	1627.584	448.4437	3.63	0.000	738.6445	2516.524

611 .

612 . //ANALYSIS C//

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

```

Multiple-imputation estimates
Linear regression
                                Imputations      =          5
                                Number of obs      =         116
                                Average RVI         =         0.0021
                                Largest FMI         =         0.0054
                                Complete DF         =         108
DF adjustment:  Small sample
                                DF:      min       =        105.46
                                avg       =        105.86
                                max       =        105.98
Model F test:      Equal FMI      F(   7, 106.0) =         2.14
Within VCE type:   OLS           Prob > F      =         0.0455

```

LnLesion_V~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.392058	.9060765	1.54	0.127	-.4043562	3.188472
Sex	0 (omitted)					
w1Age	.0995718	.0501182	1.99	0.050	.0002074	.1989362
Race	1.028254	.8442942	1.22	0.226	-.6456619	2.702171
PovStat	1.103203	.8876343	1.24	0.217	-.6566228	2.863028
TIME_V1SCAN	-.0003924	.0006125	-0.64	0.523	-.0016067	.0008219
w1BMI	.0786151	.0536299	1.47	0.146	-.0277178	.1849479
ICV_volM2	4.05e-06	4.08e-06	0.99	0.324	-4.05e-06	.0000121
_cons	-11.91116	6.651226	-1.79	0.076	-25.09802	1.275692

```

614 .
615 . save, replace
      file finaldata_imputed.dta saved

616 .
617 .
618 .
619 . //INTERACTION BY Sex//
620 .
621 .
622 . //ANALYSIS A//
623 . mi estimate: reg TOTALBRAIN c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI         =     0.0102
                                   Largest FMI          =     0.0848
                                   Complete DF          =     204
DF adjustment:  Small sample      DF:      min     =    142.31
                                   avg                   =    193.81
                                   max                   =    202.00
Model F test:      Equal FMI      F(      8, 201.8) =     20.31
Within VCE type:   OLS           Prob > F        =     0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	10527.74	18183.8	0.58	0.563	-25328.24	46383.71
Sex						
Men	188830	51937.03	3.64	0.000	86419.54	291240.5
Sex#c.LnNFLw3						
Men	-23298.76	22348.75	-1.04	0.298	-67366.25	20768.73
Sex	0 (omitted)					
w1Age	-2026.701	823.8668	-2.46	0.015	-3651.188	-402.2132
Race	-69983.28	13307.17	-5.26	0.000	-96222.17	-43744.4
PovStat	-1174.602	14943.84	-0.08	0.937	-30640.51	28291.31
TIME_V1SCAN	-21.523	9.935045	-2.17	0.031	-41.11279	-1.933201
w1BMI	998.8974	1044.002	0.96	0.340	-1064.859	3062.654
_cons	1271565	69659.39	18.25	0.000	1134165	1408965

```

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

```

```

Multiple-imputation estimates      Imputations      =      5
Linear regression                  Number of obs    =     213
                                   Average RVI         =     0.0146
                                   Largest FMI          =     0.1173
                                   Complete DF          =     204
DF adjustment:  Small sample      DF:      min     =    115.78
                                   avg                   =    189.97
                                   max                   =    202.02
Model F test:      Equal FMI      F(      8, 201.5) =     21.52
Within VCE type:   OLS           Prob > F        =     0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	2877.268	9918.185	0.29	0.772	-16680.45	22434.99
Sex						
Men	102420.6	28314.98	3.62	0.000	46588.08	158253.2
Sex#c.LnNFLw3						
Men	-14440.84	12182.63	-1.19	0.237	-38462.84	9581.161
Sex	0 (omitted)					
w1Age	-1808.416	448.9588	-4.03	0.000	-2693.667	-923.1651
Race	-48592.6	7252.976	-6.70	0.000	-62893.96	-34291.23
PovStat	471.8879	8142.28	0.06	0.954	-15582.87	16526.64
TIME_V1SCAN	-9.517853	5.415916	-1.76	0.080	-20.19696	1.161252
w1BMI	772.0843	578.3039	1.34	0.184	-373.3423	1917.511
_cons	755813.3	38132.49	19.82	0.000	680582.2	831044.4

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0075
	Largest FMI	=	0.0648
	Complete DF	=	204
DF adjustment: Small sample	DF: min	=	160.01
	avg	=	196.20
	max	=	201.98
Model F test: Equal FMI	F(8, 201.9)	=	13.77
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	6423.689	8784.241	0.73	0.465	-10897.41	23744.79
Sex						
Men	81814.29	25104.93	3.26	0.001	32311.97	131316.6
Sex#c.LnNFLw3						
Men	-11466.2	10802.71	-1.06	0.290	-32767.05	9834.655
Sex	0 (omitted)					
w1Age	-591.8866	398.2602	-1.49	0.139	-1377.169	193.396
Race	-19296.19	6431.435	-3.00	0.003	-31977.56	-6614.824
PovStat	-4810.075	7224.89	-0.67	0.506	-19055.96	9435.813
TIME_V1SCAN	-10.14187	4.801548	-2.11	0.036	-19.60947	-.6742771
w1BMI	253.0881	499.6394	0.51	0.613	-733.6502	1239.826
_cons	494504	33587.91	14.72	0.000	428260.1	560747.9

626 .
 627 .
 628 .
 629 . //ANALYSIS B//
 630 . mi estimate: reg Left_Hippocampus c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0216
	Largest FMI	=	0.1738
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	80.20
	avg	=	187.42
	max	=	200.91
Model F test: Equal FMI	F(9, 200.3)	=	20.58
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippoc~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	-21.48788	58.49279	-0.37	0.714	-136.8407	93.86492
Sex						
Men	329.6794	173.492	1.90	0.059	-12.45084	671.8096
Sex#c.LnNFLw3						
Men	-156.381	71.89298	-2.18	0.031	-298.1508	-14.6113
Sex	0 (omitted)					
w1Age	-4.474496	2.638531	-1.70	0.091	-9.677305	.7283121
Race	-64.17513	46.08519	-1.39	0.165	-155.0484	26.69811
PovStat	-81.97587	47.83514	-1.71	0.088	-176.2992	12.34748
TIME_V1SCAN	-.0051153	.0320219	-0.16	0.873	-.0682575	.0580268
w1BMI	1.615788	3.508434	0.46	0.646	-5.365946	8.597523
ICV_volM2	.0017205	.0001973	8.72	0.000	.0013315	.0021095
_cons	1681.436	350.8802	4.79	0.000	989.4599	2373.412

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

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	213
	Average RVI	=	0.0240
	Largest FMI	=	0.1904
	Complete DF	=	203
DF adjustment: Small sample	DF: min	=	72.35
	avg	=	186.40
	max	=	200.90
Model F test: Equal FMI	F(9, 200.1)	=	23.33
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippo~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	16.67719	60.8641	0.27	0.784	-103.3546	136.7089
Sex						
Men	268.0335	180.5008	1.48	0.139	-87.92366	623.9906
Sex#c.LnNFLw3						
Men	-152.311	74.7841	-2.04	0.043	-299.7832	-4.838708
Sex	0 (omitted)					
w1Age	-4.040172	2.743733	-1.47	0.142	-9.450432	1.370088
Race	-60.19645	47.92551	-1.26	0.211	-154.6987	34.30582

PovStat	-61.32502	49.73793	-1.23	0.219	-159.4004	36.75033
TIME_V1SCAN	.0159377	.0332983	0.48	0.633	-.0497214	.0815967
w1BMI	2.119381	3.680508	0.58	0.567	-5.216975	9.455736
ICV_volM2	.0021086	.0002051	10.28	0.000	.001704	.0025131
_cons	1280.35	365.0812	3.51	0.001	560.3533	2000.346

```

632 .
633 . //ANALYSIS C//
634 . mi estimate: reg LnLesion_Volume c.LnNFLw3##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	209
	Average RVI	=	0.0523
	Largest FMI	=	0.3533
	Complete DF	=	199
DF adjustment: Small sample	DF: min	=	30.41
	avg	=	174.34
	max	=	196.86
Model F test: Equal FMI	F(9, 193.4)	=	1.29
Within VCE type: OLS	Prob > F	=	0.2427

LnLesion_Vol~e	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
LnNFLw3	1.365678	.8191359	1.67	0.097	-.2504585	2.981814
Sex						
Men	3.977181	2.424542	1.64	0.103	-.8061338	8.760496
Sex#c.LnNFLw3						
Men	-1.673007	1.008973	-1.66	0.099	-3.663308	.3172933
Sex	0 (omitted)					
w1Age	.0674144	.0363774	1.85	0.065	-.0043268	.1391557
Race	.5880599	.6310862	0.93	0.353	-.6564973	1.832617
PovStat	.325845	.6598178	0.49	0.622	-.9753989	1.627089
TIME_V1SCAN	-.0001348	.0004346	-0.31	0.757	-.0009918	.0007223
w1BMI	.0344447	.0529782	0.65	0.520	-.0736903	.1425797
ICV_volM2	1.11e-06	2.68e-06	0.42	0.679	-4.17e-06	6.39e-06
_cons	-4.121911	4.869601	-0.85	0.398	-13.73332	5.489498

```

635 .
636 . save, replace
      file finaldata_imputed.dta saved

637 .
638 .
639 .
640 .
641 . capture log close

```