



```

1 .
2 .
3 . ////////////////////////////////////////////////////////////////////TABLES S7/////////////////////////////////////////////////////////////////
>
4 . cd "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER51_NFLSMRI\DATA"
E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER51_NFLSMRI\DATA

5 .
6 . *****TABLE 3: NFLw1w3trackhigh, MODELS 1 AND 2*****
7 .
8 . **ANALYSES A-C, TOTAL POPULATION**
9 .
10 . **Model 1**
11 .
12 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

13 .
14 . //ANALYSIS A//
15 . reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

```

Source	SS	df	MS	Number of obs	=	179
Model	1.1255e+12	6	1.8758e+11	F(6, 172)	=	23.77
Residual	1.3575e+12	172	7.8922e+09	Prob > F	=	0.0000
Total	2.4829e+12	178	1.3949e+10	R-squared	=	0.4533
				Adj R-squared	=	0.4342
				Root MSE	=	88838

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-4750.438	15672.53	-0.30	0.762	-.019397
Sex	137159.4	13467.63	10.18	0.000	.5790024
w1Age	-2134.116	842.378	-2.53	0.012	-.1645382
Race	-71229.33	14065.36	-5.06	0.000	-.2978253
PovStat	-3806.174	15925.58	-0.24	0.811	-.014984
TIME_V1SCAN	-21.78737	11.31646	-1.93	0.056	-.1168877
_cons	1196835	56371.56	21.23	0.000	.

```
16 . reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta
```

Source	SS	df	MS	Number of obs	=	179
Model	3.6694e+11	6	6.1157e+10	F(6, 172)	=	26.95
Residual	3.9030e+11	172	2.2692e+09	Prob > F	=	0.0000
Total	7.5724e+11	178	4.2542e+09	R-squared	=	0.4846
				Adj R-squared	=	0.4666
				Root MSE	=	47636

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-5594.368	8403.83	-0.67	0.506	-.0413633
Sex	70879.65	7221.53	9.82	0.000	.5418009
w1Age	-1934.781	451.6948	-4.28	0.000	-.2701121
Race	-50137.18	7542.042	-6.65	0.000	-.3795998
PovStat	-3086.147	8539.519	-0.36	0.718	-.0219998
TIME_V1SCAN	-8.695245	6.068044	-1.43	0.154	-.0844713
_cons	726393	30227.21	24.03	0.000	.

17 . reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	1.7559e+11	6	2.9265e+10	F(6, 172)	=	15.63
Residual	3.2206e+11	172	1.8724e+09	Prob > F	=	0.0000
Total	4.9764e+11	178	2.7958e+09	R-squared	=	0.3528
				Adj R-squared	=	0.3303
				Root MSE	=	43271

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-2486.685	7633.809	-0.33	0.745	-.02268
Sex	56212.26	6559.84	8.57	0.000	.5300388
w1Age	-603.1696	410.3072	-1.47	0.143	-.1038747
Race	-18866.45	6850.985	-2.75	0.007	-.1762036
PovStat	-5301.699	7757.066	-0.68	0.495	-.0466204
TIME_V1SCAN	-11.69338	5.512045	-2.12	0.035	-.1401282
_cons	462395.4	27457.57	16.84	0.000	.

18 .

19 .

20 .

21 . //ANALYSIS B//

22 . reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	12461498.3	7	1780214.05	F(7, 171)	=	21.73
Residual	14008585.5	171	81921.5529	Prob > F	=	0.0000
Total	26470083.9	178	148708.336	R-squared	=	0.4708
				Adj R-squared	=	0.4491
				Root MSE	=	286.22

Left_Hippocampus	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-137.94	50.50817	-2.73	0.007	-.1725024
Sex	-28.23668	58.30392	-0.48	0.629	-.0365067
w1Age	-3.902086	2.715268	-1.44	0.153	-.0921402
Race	-100.2234	49.50516	-2.02	0.044	-.128344
PovStat	-145.4768	51.32427	-2.83	0.005	-.1754027
TIME_V1SCAN	.0115413	.0366846	0.31	0.753	.0189637
ICV_volum2	.0016406	.0002164	7.58	0.000	.6045195
_cons	1926.727	330.1848	5.84	0.000	.

23 . reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	15411967.9	7	2201709.69	F(7, 171)	=	25.10
Residual	14999259.4	171	87714.9675	Prob > F	=	0.0000
Total	30411227.3	178	170849.592	R-squared	=	0.5068
				Adj R-squared	=	0.4866
				Root MSE	=	296.17

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-134.1171	52.26361	-2.57	0.011	-.1564767
Sex	-104.832	60.3303	-1.74	0.084	-.1264483
w1Age	-1.999753	2.809638	-0.71	0.478	-.0440544
Race	-99.77201	51.22574	-1.95	0.053	-.1191999
PovStat	-118.3245	53.10808	-2.23	0.027	-.1330999
TIME_V1SCAN	.045268	.0379596	1.19	0.235	.0693935
ICV_volum2	.0020728	.0002239	9.26	0.000	.7125462
_cons	1554.373	341.6606	4.55	0.000	.

24 .
25 . //ANALYSIS C//
26 . reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1, beta

Source	SS	df	MS	Number of obs	=	179
Model	175.147732	7	25.0211046	F(7, 171)	=	1.75
Residual	2449.96361	171	14.3272726	Prob > F	=	0.1013
				R-squared	=	0.0667
				Adj R-squared	=	0.0285
Total	2625.11134	178	14.7478165	Root MSE	=	3.7851

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	1.00776	.6679506	1.51	0.133	.126551
Sex	.3379912	.7710462	0.44	0.662	.0438801
w1Age	.0557289	.0359083	1.55	0.123	.1321408
Race	1.071161	.6546861	1.64	0.104	.1377415
PovStat	.8456393	.6787432	1.25	0.215	.1023838
TIME_V1SCAN	-.0005857	.0004851	-1.21	0.229	-.0966426
ICV_volum2	2.41e-06	2.86e-06	0.84	0.402	.0890242
_cons	-2.55588	4.366563	-0.59	0.559	.

27 .
28 .
29 .
30 . **Model 2: BMI-Adjusted**
31 .
32 . use finaldata_imputed,clear
33 .
34 . capture drop NFLw1w3trackhigh
35 . gen NFLw1w3trackhigh=.
(22,320 missing values generated)
36 . replace NFLw1w3trackhigh=1 if NFLw1>8 & NFLw3>8 & NFLw1~=.& NFLw3~=.
(1,458 real changes made)

```

37 . replace NFLw1w3trackhigh=0 if NFLw1w3trackhigh~=1 & NFLw1~=. & NFLw3~=.
(2,586 real changes made)

38 .
39 .
40 . capture drop NFLw1w3tracklow

41 . gen NFLw1w3tracklow=.
(22,320 missing values generated)

42 . replace NFLw1w3tracklow=1 if NFLw1<=8 & NFLw3<=8 & NFLw1~=. & NFLw3~=.
(1,644 real changes made)

43 . replace NFLw1w3tracklow=0 if NFLw1w3tracklow~=1 & NFLw1~=. & NFLw3~=.
(2,400 real changes made)

44 .
45 . save, replace
file finaldata_imputed.dta saved

46 .
47 . //ANALYSIS A/
48 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

```

Multiple-imputation estimates
Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	171	
DF adjustment: Small sample	DF:	min	169.03
		avg	169.03
		max	169.03
Model F test: Equal FMI	F(7, 169.0)	=	20.34
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2529.097	16163.05	-0.16	0.876	-34436.54 29378.35
Sex	138369.4	13653.96	10.13	0.000	111415.1 165323.6
w1Age	-2200.676	851.7717	-2.58	0.011	-3882.156 -519.1952
Race	-71156.99	14093.12	-5.05	0.000	-98978.19 -43335.79
PovStat	-3976.381	15959.09	-0.25	0.804	-35481.18 27528.42
TIME_V1SCAN	-21.1924	11.38465	-1.86	0.064	-43.66682 1.282008
w1BMI	628.9596	1084.288	0.58	0.563	-1511.531 2769.451
_cons	1177948	65193.01	18.07	0.000	1049251 1306646

```

49 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates  

Linear regression


|                             | Imputations  | =      | 5      |
|-----------------------------|--------------|--------|--------|
| Number of obs               | =            | 179    |        |
| Average RVI                 | =            | 0.0000 |        |
| Largest FMI                 | =            | 0.0000 |        |
| Complete DF                 | =            | 171    |        |
| DF adjustment: Small sample | DF:          | min    | 169.03 |
|                             |              | avg    | 169.03 |
|                             |              | max    | 169.03 |
| Model F test: Equal FMI     | F( 7, 169.0) | =      | 23.18  |
| Within VCE type: OLS        | Prob > F     | =      | 0.0000 |


```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-3802.346	8656.073	-0.44	0.661	-20890.28 13285.59
Sex	71855.8	7312.338	9.83	0.000	57420.53 86291.06
w1Age	-1988.477	456.1637	-4.36	0.000	-2888.988 -1087.965
Race	-50078.82	7547.528	-6.64	0.000	-64978.38 -35179.27
PovStat	-3223.458	8546.84	-0.38	0.707	-20095.75 13648.84
TIME_V1SCAN	-8.215265	6.097015	-1.35	0.180	-20.25137 3.820837
w1BMI	507.4004	580.6873	0.87	0.383	-638.933 1653.734
_cons	711156.9	34913.92	20.37	0.000	642233.5 780080.4

50 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	171	
DF adjustment: Small sample	DF:	min	= 169.03
		avg	= 169.03
		max	= 169.03
Model F test: Equal FMI	F(7, 169.0)	= 13.33
Within VCE type: OLS	Prob > F		= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2125.556	7879.612	-0.27	0.788	-17680.68 13429.57
Sex	56408.98	6656.412	8.47	0.000	43268.57 69549.38
w1Age	-613.9903	415.2452	-1.48	0.141	-1433.725 205.7443
Race	-18854.69	6870.505	-2.74	0.007	-32417.74 -5291.643
PovStat	-5329.37	7780.178	-0.68	0.494	-20688.2 10029.46
TIME_V1SCAN	-11.59665	5.550105	-2.09	0.038	-22.5531 -.6402051
w1BMI	102.2516	528.5989	0.19	0.847	-941.2543 1145.757
_cons	459325	31782.09	14.45	0.000	396584 522065.9

51 .

52 .

53 . //ANALYSIS B//

54 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	= 18.92
Within VCE type: OLS	Prob > F		= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-134.8407	52.12036	-2.59	0.011	-237.7358 -31.94558
Sex	-26.07577	59.09036	-0.44	0.660	-142.7309 90.57937
w1Age	-3.996378	2.748349	-1.45	0.148	-9.422121 1.429365
Race	-100.3599	49.64425	-2.02	0.045	-198.3667 -2.353141
PovStat	-145.7302	51.47524	-2.83	0.005	-247.3517 -44.10873
TIME_V1SCAN	.0123268	.0369175	0.33	0.739	-.0605549 .0852086
w1BMI	.8816012	3.500118	0.25	0.801	-6.028269 7.791471
ICV_volum2	.001638	.0002172	7.54	0.000	.0012091 .0020669
_cons	1903.546	343.6457	5.54	0.000	1225.127 2581.966

55 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_f

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	21.86
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-130.1215	53.92628	-2.41	0.017	-236.5818 -23.66121
Sex	-102.0462	61.13778	-1.67	0.097	-222.7433 18.65094
w1Age	-2.121313	2.843577	-0.75	0.457	-7.735051 3.492426
Race	-99.948	51.36437	-1.95	0.053	-201.3506 1.45462
PovStat	-118.6512	53.2588	-2.23	0.027	-223.7938 -13.50865
TIME_V1SCAN	.0462806	.0381966	1.21	0.227	-.0291264 .1216877
w1BMI	1.136539	3.621393	0.31	0.754	-6.01275 8.285829
ICV_volum2	.0020694	.0002248	9.21	0.000	.0016257 .0025132
_cons	1524.488	355.5526	4.29	0.000	822.5628 2226.414

56 .

57 . //ANALYSIS C//

58 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_f

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	1.59
Within VCE type: OLS	Prob > F	=	0.1299

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.129346	.6882673	1.64	0.103	-.2294185 2.488111
Sex	.4227648	.7803084	0.54	0.589	-1.117706 1.963236
w1Age	.0520298	.0362929	1.43	0.154	-.019619 .1236786
Race	1.065805	.6555693	1.63	0.106	-.2284083 2.360018
PovStat	.8356978	.6797481	1.23	0.221	-.5062489 2.177644
TIME_V1SCAN	-.0005549	.0004875	-1.14	0.257	-.0015173 .0004075
w1BMI	.0345856	.0462203	0.75	0.455	-.0566616 .1258328
ICV_volum2	2.30e-06	2.87e-06	0.80	0.423	-3.36e-06 7.97e-06
_cons	-3.465275	4.537959	-0.76	0.446	-12.42403 5.493482

```

59 .
60 . save, replace
  file finaldata_imputed.dta saved

61 .
62 . *****MALES*****
63 .
64 . **Model 1**
65 .
66 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

67 .
68 . //ANALYSIS A//
69 . reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	80
Model	2.4365e+11	5	4.8730e+10	F(5, 74)	=	4.61
Residual	7.8237e+11	74	1.0573e+10	Prob > F	=	0.0010
Total	1.0260e+12	79	1.2988e+10	R-squared	=	0.2375
				Adj R-squared	=	0.1859
				Root MSE	=	1.0e+05

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-9145.476	25954.78	-0.35	0.726	-.0390957
Sex	0	(omitted)			.
w1Age	-2209.912	1461.32	-1.51	0.135	-.1692715
Race	-91830.71	24644.33	-3.73	0.000	-.4008517
PovStat	15917.23	27879.73	0.57	0.570	.0608605
TIME_V1SCAN	-41.43527	19.44415	-2.13	0.036	-.2225111
_cons	1519632	94681.44	16.05	0.000	.

```

70 . reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	80
Model	1.1256e+11	5	2.2512e+10	F(5, 74)	=	7.88
Residual	2.1140e+11	74	2.8567e+09	Prob > F	=	0.0000
Total	3.2396e+11	79	4.1007e+09	R-squared	=	0.3475
				Adj R-squared	=	0.3034
				Root MSE	=	53449

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-13443.49	13491.58	-1.00	0.322	-.1022746
Sex	0	(omitted)			.
w1Age	-2305.089	759.6104	-3.03	0.003	-.3142167
Race	-64304.53	12810.4	-5.02	0.000	-.4995397
PovStat	4008.165	14492.19	0.28	0.783	.0272738
TIME_V1SCAN	-16.72931	10.10728	-1.66	0.102	-.1598793
_cons	915984	49216.46	18.61	0.000	.

71 . reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	3.2931e+10	5	6.5863e+09	F(5, 74)	=	2.62
Residual	1.8573e+11	74	2.5099e+09	Prob > F	=	0.0307
				R-squared	=	0.1506
Total	2.1866e+11	79	2.7679e+09	Adj R-squared	=	0.0932
				Root MSE	=	50099

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-4424.144	12646.05	-0.35	0.727	-.0409677
Sex	0	(omitted)			.
w1Age	-423.184	712.0044	-0.59	0.554	-.0702146
Race	-26917.29	12007.55	-2.24	0.028	-.2545169
PovStat	2765.176	13583.94	0.20	0.839	.0229024
TIME_V1SCAN	-22.64548	9.473845	-2.39	0.019	-.2634223
_cons	589715.4	46131.99	12.78	0.000	.

72 .

73 .

74 . //ANALYSIS B//

75 . reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	7538205.47	6	1256367.58	F(6, 73)	=	12.99
Residual	7061126.06	73	96727.7542	Prob > F	=	0.0000
				R-squared	=	0.5163
Total	14599331.5	79	184801.665	Adj R-squared	=	0.4766
				Root MSE	=	311.01

Left_Hippocampus	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-194.3139	78.53189	-2.47	0.016	-.2202104
Sex	0	(omitted)			.
w1Age	-2.982651	4.420246	-0.67	0.502	-.0605651
Race	-28.01258	83.04813	-0.34	0.737	-.032416
PovStat	-258.4985	84.42413	-3.06	0.003	-.2620216
TIME_V1SCAN	.0004521	.0601198	0.01	0.994	.0006436
ICV_volum2	.0021119	.0003192	6.62	0.000	.6232508
_cons	1229.375	605.2744	2.03	0.046	.

76 . reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==2, beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	8614194.75	6	1435699.13	F(6, 73)	=	14.05
Residual	7457363.66	73	102155.667	Prob > F	=	0.0000
Total	16071558.4	79	203437.448	R-squared	=	0.5360
				Adj R-squared	=	0.4979
				Root MSE	=	319.62

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-191.1943	80.70524	-2.37	0.020	-.2065126
Sex	0	(omitted)			.
w1Age	-2.094789	4.542575	-0.46	0.646	-.0405413
Race	-31.75072	85.34646	-0.37	0.711	-.0350185
PovStat	-222.8501	86.76054	-2.57	0.012	-.2152928
TIME_V1SCAN	.0475779	.0617836	0.77	0.444	.0645558
ICV_volum2	.0024093	.000328	7.34	0.000	.6776612
_cons	915.9021	622.0252	1.47	0.145	.

77 .
 78 . //ANALYSIS C//
 79 . reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	54.9296708	6	9.15494514	F(6, 73)	=	1.01
Residual	659.411668	73	9.03303655	Prob > F	=	0.4234
Total	714.341339	79	9.04229543	R-squared	=	0.0769
				Adj R-squared	=	0.0010
				Root MSE	=	3.0055

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	1.315613	.758905	1.73	0.087	.2131453
Sex	0	(omitted)			.
w1Age	-.035297	.0427157	-0.83	0.411	-.1024641
Race	1.285465	.8025483	1.60	0.114	.2126575
PovStat	.2475979	.8158455	0.30	0.762	.0358789
TIME_V1SCAN	-.0005424	.000581	-0.93	0.354	-.110382
ICV_volum2	3.36e-07	3.08e-06	0.11	0.913	.0141947
_cons	5.722337	5.849162	0.98	0.331	.

80 .
 81 .
 82 . **Model 2**
 83 .
 84 . use finaldata_imputed,clear

```

85 .
86 .
87 . //ANALYSIS A/
88 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	73	
DF adjustment: Small sample	DF:	min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test: Equal FMI	F(6, 71.1)	=	3.81
Within VCE type: OLS	Prob > F	=	0.0024

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-7829.411	26543.91	-0.29	0.769	-60755.44	45096.62
Sex	0	(omitted)				
w1Age	-2368.874	1577.827	-1.50	0.138	-5514.912	777.1642
Race	-91972.04	24804.65	-3.71	0.000	-141430.2	-42513.93
PovStat	16141.71	28066.82	0.58	0.567	-39820.86	72104.27
TIME_V1SCAN	-41.42443	19.56657	-2.12	0.038	-80.4383	-2.410554
w1BMI	699.6089	2517.188	0.28	0.782	-4319.425	5718.643
_cons	1506913	105698	14.26	0.000	1296161	1717665

```

89 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	73	
DF adjustment: Small sample	DF:	min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test: Equal FMI	F(6, 71.1)	=	6.54
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-12197.25	13780.88	-0.89	0.379	-39675.02	15280.52
Sex	0	(omitted)				
w1Age	-2455.617	819.1654	-3.00	0.004	-4088.955	-822.2791
Race	-64438.35	12877.9	-5.00	0.000	-90115.67	-38761.04
PovStat	4220.728	14571.53	0.29	0.773	-24833.53	33274.98
TIME_V1SCAN	-16.71904	10.15843	-1.65	0.104	-36.97399	3.53591
w1BMI	662.49	1306.856	0.51	0.614	-1943.257	3268.237
_cons	903939.7	54875.55	16.47	0.000	794523	1013356

90 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	73
DF adjustment:	Small sample		
	DF:	min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(6, 71.1)	= 2.16
Within VCE type:	OLS	Prob > F	= 0.0567

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-4795.734	12937.63	-0.37	0.712	-30592.14 21000.67
Sex	0	(omitted)			
w1Age	-378.3014	769.0407	-0.49	0.624	-1911.696 1155.093
Race	-26877.38	12089.91	-2.22	0.029	-50983.51 -2771.257
PovStat	2701.797	13679.9	0.20	0.844	-24574.63 29978.22
TIME_V1SCAN	-22.64854	9.536839	-2.37	0.020	-41.6641 -3.632994
w1BMI	-197.5336	1226.89	-0.16	0.873	-2643.835 2248.768
_cons	593306.6	51517.72	11.52	0.000	490585.2 696028.1

91 .

92 .

93 . //ANALYSIS B//

94 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	72
DF adjustment:	Small sample		
	DF:	min	= 70.08
		avg	= 70.08
		max	= 70.08
Model F test:	Equal FMI	F(7, 70.1)	= 11.04
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-188.0368	80.24539	-2.34	0.022	-348.078 -27.99565
Sex	0	(omitted)			
w1Age	-3.744797	4.769949	-0.79	0.435	-13.25797 5.768374
Race	-29.20667	83.5545	-0.35	0.728	-195.8475 137.4342
PovStat	-257.3662	84.93308	-3.03	0.003	-426.7565 -87.97593
TIME_V1SCAN	.000328	.0604551	0.01	0.996	-.1202435 .1208995
w1BMI	3.351961	7.612164	0.44	0.661	-11.82972 18.53364
ICV_volum2	.0021074	.0003211	6.56	0.000	.0014669 .0027479
_cons	1175.965	620.6124	1.89	0.062	-61.783 2413.712

```
95 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_f
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	72	
DF adjustment: Small sample	DF:	min	= 70.08
		avg	= 70.08
		max	= 70.08
Model F test: Equal FMI	F(7, 70.1)	=	12.25
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-175.2744	81.89893	-2.14	0.036	-338.6134 -11.93546
Sex	0	(omitted)			
w1Age	-4.027751	4.868238	-0.83	0.411	-13.73695 5.681449
Race	-34.77919	85.27623	-0.41	0.685	-204.8539 135.2955
PovStat	-219.9785	86.68321	-2.54	0.013	-392.8592 -47.09771
TIME_V1SCAN	.0472632	.0617009	0.77	0.446	-.0757928 .1703193
w1BMI	8.501275	7.769021	1.09	0.278	-6.993237 23.99579
ICV_volum2	.0023978	.0003278	7.32	0.000	.0017441 .0030515
_cons	780.4417	633.4008	1.23	0.222	-482.811 2043.694

96 .

97 . //ANALYSIS C//

```
98 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	72	
DF adjustment: Small sample	DF:	min	= 70.08
		avg	= 70.08
		max	= 70.08
Model F test: Equal FMI	F(7, 70.1)	=	0.88
Within VCE type: OLS	Prob > F	=	0.5263

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.261438	.7756749	1.63	0.108	-.2855658 2.808442
Sex	0	(omitted)			
w1Age	-.0287192	.0461077	-0.62	0.535	-.1206762 .0632378
Race	1.295771	.8076617	1.60	0.113	-.3150272 2.906569
PovStat	.2378259	.8209874	0.29	0.773	-1.399549 1.875201
TIME_V1SCAN	-.0005413	.0005844	-0.93	0.357	-.0017068 .0006242
w1BMI	-.0289296	.0735814	-0.39	0.695	-.17568 .1178208
ICV_volum2	3.75e-07	3.10e-06	0.12	0.904	-5.82e-06 6.57e-06
_cons	6.183305	5.999017	1.03	0.306	-5.781118 18.14773

```

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

101 .
102 .
103 .
104 .
105 .
106 . ****FEMALES*****
107 .
108 . **Model 1**
109 .
110 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

111 .
112 . //ANALYSIS A//
113 . reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	99
Model	1.1711e+11	5	2.3421e+10	F(5, 93)	=	4.10
Residual	5.3097e+11	93	5.7094e+09	Prob > F	=	0.0021
				R-squared	=	0.1807
				Adj R-squared	=	0.1366
Total	6.4808e+11	98	6.6131e+09	Root MSE	=	75560

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-5858.457	19289.25	-0.30	0.762	-.0346159
Sex	0	(omitted)			.
w1Age	-2119.373	974.0487	-2.18	0.032	-.2457749
Race	-56930.52	16088.35	-3.54	0.001	-.3452785
PovStat	-24804.39	18659.94	-1.33	0.187	-.147475
TIME_V1SCAN	-3.512402	13.27279	-0.26	0.792	-.028215
_cons	1305802	58522.05	22.31	0.000	.

```

114 . reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	99
Model	5.7766e+10	5	1.1553e+10	F(5, 93)	=	6.50
Residual	1.6520e+11	93	1.7764e+09	Prob > F	=	0.0000
Total	2.2297e+11	98	2.2752e+09	R-squared	=	0.2591
				Adj R-squared	=	0.2192
				Root MSE	=	42147

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-1305.475	10759.32	-0.12	0.904	-.0131509
Sex	0	(omitted)			.
w1Age	-1729.357	543.3133	-3.18	0.002	-.3419079
Race	-40738.68	8973.902	-4.54	0.000	-.4212363
PovStat	-9372.068	10408.3	-0.90	0.370	-.0949992
TIME_V1SCAN	-1.219638	7.403413	-0.16	0.870	-.0167033
_cons	766482.9	32642.94	23.48	0.000	.

115 . reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	1.2662e+10	5	2.5323e+09	F(5, 93)	=	1.87
Residual	1.2587e+11	93	1.3535e+09	Prob > F	=	0.1069
Total	1.3854e+11	98	1.4136e+09	R-squared	=	0.0914
				Adj R-squared	=	0.0425
				Root MSE	=	36790

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-1777.444	9391.793	-0.19	0.850	-.0227154
Sex	0	(omitted)			.
w1Age	-776.203	474.2572	-1.64	0.105	-.1946872
Race	-13255.5	7833.302	-1.69	0.094	-.1738811
PovStat	-14794.46	9085.387	-1.63	0.107	-.1902484
TIME_V1SCAN	-1.875353	6.462425	-0.29	0.772	-.032583
_cons	512050.8	28493.96	17.97	0.000	.

116 .

117 .

118 .

119 . //ANALYSIS B//

120 . reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	2632486.36	6	438747.727	F(6, 92)	=	6.81
Residual	5928064.97	92	64435.4888	Prob > F	=	0.0000
Total	8560551.34	98	87352.5647	R-squared	=	0.3075
				Adj R-squared	=	0.2624
				Root MSE	=	253.84

Left_Hippocampus	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-45.21636	64.85759	-0.70	0.487	-.0735108
Sex	0	(omitted)			.
w1Age	-6.124046	3.276907	-1.87	0.065	-.1954032
Race	-160.0136	58.36478	-2.74	0.007	-.2670203
PovStat	-68.30872	63.1786	-1.08	0.282	-.1117453
TIME_V1SCAN	.0230105	.0445896	0.52	0.607	.0508588
ICV_volum2	.0010826	.000293	3.69	0.000	.3521343
_cons	2629.592	463.997	5.67	0.000	.

121 . reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	4230931.96	6	705155.326	F(6, 92)	=	9.47
Residual	6848340.97	92	74438.4888	Prob > F	=	0.0000
Total	11079272.9	98	113053.805	R-squared	=	0.3819
				Adj R-squared	=	0.3416
				Root MSE	=	272.83

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	-45.06457	69.71031	-0.65	0.520	-.0644
Sex	0	(omitted)			.
w1Age	-3.236827	3.522089	-0.92	0.360	-.0907837
Race	-153.5076	62.7317	-2.45	0.016	-.2251711
PovStat	-34.88176	67.9057	-0.51	0.609	-.0501588
TIME_V1SCAN	.0436686	.0479259	0.91	0.365	.0848407
ICV_volum2	.0017282	.000315	5.49	0.000	.4941069
_cons	1875.428	498.7138	3.76	0.000	.

```

122 .
123 . //ANALYSIS C//
124 . reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	99
Model	197.106199	6	32.8510331	F(6, 92)	=	1.79
Residual	1686.84567	92	18.335279	Prob > F	=	0.1094
				R-squared	=	0.1046
				Adj R-squared	=	0.0462
Total	1883.95187	98	19.2239987	Root MSE	=	4.282

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3trackhigh	.6749156	1.094062	0.62	0.539	.0739641
Sex	0	(omitted)			.
w1Age	.12866	.0552771	2.33	0.022	.2767277
Race	.9861381	.9845369	1.00	0.319	.110928
PovStat	1.448022	1.06574	1.36	0.178	.1596776
TIME_V1SCAN	-.0007408	.0007522	-0.98	0.327	-.1103644
ICV_volum2	6.27e-06	4.94e-06	1.27	0.208	.137556
_cons	-10.82283	7.827018	-1.38	0.170	.

```

125 .
126 .
127 . **Model 2**
128 .
129 . use finaldata_imputed,clear

130 .
131 .
132 . //ANALYSIS A//
133 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	92
DF adjustment: Small sample	DF: min	=	90.06
	avg	=	90.06
	max	=	90.06
Model F test:	F(6, 90.1)	=	3.54
Within VCE type:	Prob > F	=	0.0034

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-1093.297	20030.97	-0.05	0.957	-40887.93	38701.34
Sex	0	(omitted)				
w1Age	-2153.622	975.8461	-2.21	0.030	-4092.293	-214.9524
Race	-57004.26	16105.85	-3.54	0.001	-89001.03	-25007.49
PovStat	-25386.36	18691.3	-1.36	0.178	-62519.55	11746.82
TIME_V1SCAN	-1.601465	13.45761	-0.12	0.906	-28.3371	25.13417
w1BMI	989.925	1106.408	0.89	0.373	-1208.127	3187.977
_cons	1272937	69147.88	18.41	0.000	1135564	1410310

134 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	5.76
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	2623.35	11115.3	0.24	0.814	-19458.92	24705.62
Sex	0	(omitted)				
w1Age	-1757.595	541.5026	-3.25	0.002	-2833.374	-681.816
Race	-40799.48	8937.228	-4.57	0.000	-58554.67	-23044.29
PovStat	-9851.9	10371.91	-0.95	0.345	-30457.32	10753.52
TIME_V1SCAN	.3559091	7.467706	0.05	0.962	-14.47985	15.19167
w1BMI	816.1828	613.9524	1.33	0.187	-403.5292	2035.895
_cons	739386.3	38370.56	19.27	0.000	663157.2	815615.3

135 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	1.61
Within VCE type: OLS	Prob > F	=	0.1539

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-217.0735	9776.144	-0.02	0.982	-19638.9	19204.76
Sex	0	(omitted)				
w1Age	-787.4181	476.2631	-1.65	0.102	-1733.589	158.7527
Race	-13279.64	7860.483	-1.69	0.095	-28895.72	2336.428
PovStat	-14985.03	9122.318	-1.64	0.104	-33107.94	3137.874
TIME_V1SCAN	-1.249609	6.568007	-0.19	0.850	-14.29798	11.79876
w1BMI	324.1549	539.9843	0.60	0.550	-748.6079	1396.918
_cons	501289.1	33747.73	14.85	0.000	434244	568334.2

136 .

137 .

138 .

139 . //ANALYSIS B//

140 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	91	
DF adjustment: Small sample	DF:	min	89.06
		avg	89.06
		max	89.06
Model F test: Equal FMI	F(7, 89.1)	=	5.79
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-39.88905	67.56907	-0.59	0.556	-174.146 94.36793
Sex	0	(omitted)			
w1Age	-6.166848	3.296349	-1.87	0.065	-12.71656 .3828626
Race	-160.6098	58.68958	-2.74	0.007	-277.2236 -43.99601
PovStat	-69.15015	63.55582	-1.09	0.280	-195.433 57.13266
TIME_V1SCAN	.0251679	.0453883	0.55	0.581	-.0650168 .1153526
w1BMI	1.119783	3.74261	0.30	0.765	-6.31663 8.556195
ICV_volum2	.0010758	.0002954	3.64	0.000	.0004889 .0016627
_cons	2602.2	475.212	5.48	0.000	1657.974 3546.427

141 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	91	
DF adjustment: Small sample	DF:	min	89.06
		avg	89.06
		max	89.06
Model F test: Equal FMI	F(7, 89.1)	=	8.03
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-46.81149	72.65706	-0.64	0.521	-191.1781 97.55512
Sex	0	(omitted)			
w1Age	-3.222792	3.544566	-0.91	0.366	-10.2657 3.820115
Race	-153.3121	63.10894	-2.43	0.017	-278.707 -27.91722
PovStat	-34.60584	68.3416	-0.51	0.614	-170.3978 101.1861
TIME_V1SCAN	.0429612	.0488061	0.88	0.381	-.0540144 .1399369
w1BMI	-.3671968	4.02443	-0.09	0.928	-8.363575 7.629181
ICV_volum2	.0017305	.0003176	5.45	0.000	.0010994 .0023616
_cons	1884.41	510.9957	3.69	0.000	869.0823 2899.737

```

142 .
143 . //ANALYSIS C//
144 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     99
Average RVI     =  0.0000
Largest FMI     =  0.0000
Complete DF      =     91
DF adjustment:  Small sample
DF:   min       =  89.06
      avg       =  89.06
      max       =  89.06
Model F test:    Equal FMI      F(  7,  89.1)  =  1.78
Within VCE type: OLS          Prob > F  =  0.1016

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.054302	1.13033	0.93	0.353	-1.191618 3.300222
Sex	0 (omitted)				
w1Age	.1256119	.055143	2.28	0.025	.0160449 .2351788
Race	.9436754	.9817897	0.96	0.339	-1.007101 2.894451
PovStat	1.388099	1.063195	1.31	0.195	-.7244254 3.500623
TIME_V1SCAN	-.0005871	.0007593	-0.77	0.441	-.0020958 .0009215
w1BMI	.0797459	.0626083	1.27	0.206	-.0446542 .2041461
ICV_volum2	5.79e-06	4.94e-06	1.17	0.245	-4.03e-06 .0000156
_cons	-12.77352	7.949592	-1.61	0.112	-28.56903 3.021994

```

145 .
146 . save, replace
file finaldata_imputed.dta saved

147 .
148 .
149 .
150 . //INTERACTION BY Sex//
151 . use finaldata_imputed,clear

152 .
153 .
154 . //ANALYSIS A//
155 . mi estimate: reg TOTALBRAIN c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     179
Average RVI     =  0.0000
Largest FMI     =  0.0000
Complete DF      =     170
DF adjustment:  Small sample
DF:   min       =  168.03
      avg       =  168.03
      max       =  168.03
Model F test:    Equal FMI      F(  8,  168.0)  =  17.70
Within VCE type: OLS          Prob > F  =  0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-346.7267	21956.9	-0.02	0.987	-43693.64	43000.19
Sex						
Men	140033.5	17749.67	7.89	0.000	104992.4	175074.6
Sex#c.NFLw1w3trackhigh						
Men	-4271.241	28986.94	-0.15	0.883	-61496.74	52954.26
Sex	0 (omitted)					
w1Age	-2216.937	861.3175	-2.57	0.011	-3917.334	-516.5388
Race	-71351.86	14195.35	-5.03	0.000	-99376.07	-43327.66
PovStat	-3670.731	16138.8	-0.23	0.820	-35531.66	28190.19
TIME_V1SCAN	-21.06917	11.44795	-1.84	0.067	-43.6695	1.531156
w1BMI	657.0976	1104.043	0.60	0.553	-1522.485	2836.68
_cons	1315079	61956.41	21.23	0.000	1192766	1437392

156 . mi estimate: reg GM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	20.43
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	4447.063	11722.23	0.38	0.705	-18694.76	27588.89
Sex						
Men	78146.25	9476.1	8.25	0.000	59438.7	96853.8
Sex#c.NFLw1w3trackhigh						
Men	-16145.39	15475.39	-1.04	0.298	-46696.64	14405.86
Sex	0 (omitted)					
w1Age	-2049.943	459.8356	-4.46	0.000	-2957.743	-1142.144
Race	-50815.45	7578.538	-6.71	0.000	-65776.86	-35854.03
PovStat	-2068.092	8616.095	-0.24	0.811	-19077.83	14941.65
TIME_V1SCAN	-7.749453	6.111768	-1.27	0.207	-19.8152	4.316291
w1BMI	613.7625	589.4208	1.04	0.299	-549.8615	1777.387
_cons	778329.5	33076.96	23.53	0.000	713029.5	843629.4

157 . mi estimate: reg WM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	170
DF adjustment:	Small sample	DF:	
		min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test:	Equal FMI	F(8, 168.0)	= 11.59
Within VCE type:	OLS	Prob > F	= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-2623.167	10704.69	-0.25	0.807	-23756.18	18509.84
Sex						
Men	56029.53	8653.532	6.47	0.000	38945.88	73113.18
Sex#c.NFLw1w3trackhigh						
Men	973.9022	14132.06	0.07	0.945	-26925.36	28873.16
Sex	0 (omitted)					
w1Age	-610.2826	419.9198	-1.45	0.148	-1439.281	218.7157
Race	-18810.26	6920.687	-2.72	0.007	-32472.95	-5147.56
PovStat	-5399.063	7868.179	-0.69	0.494	-20932.28	10134.16
TIME_V1SCAN	-11.62475	5.581239	-2.08	0.039	-22.64314	-.6063674
w1BMI	95.83572	538.2564	0.18	0.859	-966.7806	1158.452
_cons	516016.5	30205.73	17.08	0.000	456384.8	575648.1

158 .

159 .

160 . //ANALYSIS B//

161 . mi estimate: reg Left_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sa

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	169
DF adjustment:	Small sample	DF:	
		min	= 167.03
		avg	= 167.03
		max	= 167.03
Model F test:	Equal FMI	F(9, 167.0)	= 17.04
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-75.69415	70.49758	-1.07	0.285	-214.8753	63.48695
Sex						
Men	18.15343	68.88697	0.26	0.792	-117.8479	154.1548
Sex#c.NFLw1w3trackhigh						
Men	-115.7325	93.06367	-1.24	0.215	-299.4651	68.00012
Sex	0 (omitted)					
w1Age	-4.434764	2.766494	-1.60	0.111	-9.896564	1.027037
Race	-105.2031	49.71742	-2.12	0.036	-203.3586	-7.04764
PovStat	-137.4201	51.82532	-2.65	0.009	-239.7372	-35.10308
TIME_V1SCAN	.0157515	.036961	0.43	0.671	-.0572194	.0887224

w1BMI	1.640408	3.547377	0.46	0.644	-5.363065	8.643881
ICV_volM2	.0016428	.0002169	7.57	0.000	.0012145	.0020711
_cons	1837.095	369.3989	4.97	0.000	1107.803	2566.388

162 . mi estimate: reg Right_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sam

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 167.03
		avg	= 167.03
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	19.75
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-61.62256	72.85578	-0.85	0.399	-205.4594 82.21428	
Sex Men	-50.82332	71.19131	-0.71	0.476	-191.374 89.72739	
Sex#c.NFLw1w3trackhigh Men	-134.0325	96.17674	-1.39	0.165	-323.9111 55.84616	
Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 _cons	0 (omitted) -2.629017 -105.557 -109.0271 .0502468 2.015331 .0020749 1375.682	2.859036 51.38051 53.55892 .0381974 3.66604 .0002242 381.7556	-0.92 -2.05 -2.04 1.32 0.55 9.26 3.60	0.359 0.041 0.043 0.190 0.583 0.000 0.000	-8.27352 -206.9959 -214.7668 -.0251651 -5.222414 .0016323 .0025175	3.015485 -4.118141 -3.287451 .1256587 9.253076 .0025175 2129.37

163 .

164 . //ANALYSIS C//

165 . mi estimate: reg LnLesion_Volume c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sam

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 167.03
		avg	= 167.03
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	1.46
Within VCE type: OLS	Prob > F	=	0.1653

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.555888	.933929	1.67	0.098	-.2879383 3.399714
Sex Men	.7417282	.9125923	0.81	0.418	-1.059973 2.54343
Sex#c.NFLw1w3trackhigh Men	-.834617	1.232877	-0.68	0.499	-3.268647 1.599413
Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 _cons	0 (omitted) .0488683 .0366496 1.030878 .6586402 .8956269 .686565 -.0005302 .0004896 .0400578 .0469945 2.34e-06 2.87e-06 -3.333683 4.893677	1.33 0.184 1.57 0.119 1.30 0.194 -1.08 0.280 0.85 0.395 0.81 0.417 -0.68 0.497	0.184 0.119 0.194 0.280 0.395 0.417 0.497	-.0234878 .1212245 -.2694546 2.33121 -.4598363 2.25109 -.0014969 .0004365 -.0527219 .1328375 -3.33e-06 8.01e-06 -12.99511 6.327746	

```

166 .
167 . save, replace
      file finaldata_imputed.dta saved

168 .
169 .
170 . *****TABLE S3: NFLw1w3trackhigh, MODELS 3-6*****
171 .
172 . *****MODEL 3: MODEL 2+w1dxDiabetes w1Glucose*****
173 .
174 . //Overall// 
175 .
176 . use finaldata_imputed,clear

177 .
178 .
179 . //ANALYSIS A// 
180 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sa

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	179
Average RVI	=	0.0053
Largest FMI	=	0.0525
Complete DF	=	169
DF adjustment: Small sample	DF:	min = 144.00
		avg = 163.86
		max = 167.03
Model F test:	Equal FMI	F(9, 167.0) = 15.58
Within VCE type:	OLS	Prob > F = 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-3141.646	16371.38	-0.19	0.848	-35463.29 29180
Sex	137698.1	13950.34	9.87	0.000	110156.4 165239.9
w1Age	-2197.201	871.0837	-2.52	0.013	-3916.976 -477.4264
Race	-70498.87	14273.71	-4.94	0.000	-98679.09 -42318.66
PovStat	-4343.883	16080.33	-0.27	0.787	-36090.76 27403
TIME_V1SCAN	-21.09518	11.56317	-1.82	0.070	-43.92409 1.733725
w1BMI	575.1637	1111.271	0.52	0.605	-1618.791 2769.118
w1dxDiabetes	-2041.966	14058.76	-0.15	0.885	-29830.16 25746.23
w1Glucose	119.1908	328.4745	0.36	0.717	-529.4979 767.8795
_cons	1168816	71899.26	16.26	0.000	1026858 1310774

181 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fi

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0021
		Largest FMI	=	0.0201
		Complete DF	=	169
DF adjustment:	Small sample	DF:	min	= 161.24
			avg	= 166.18
			max	= 167.03
Model F test:	Equal FMI	F(9, 167.0)	=	17.94
Within VCE type:	OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-4721.394	8750.843	-0.54	0.590	-21997.95 12555.16
Sex	71681.25	7457.725	9.61	0.000	56957.67 86404.83
w1Age	-1940.502	465.492	-4.17	0.000	-2859.514 -1021.49
Race	-49345.93	7630.471	-6.47	0.000	-64410.56 -34281.29
PovStat	-3405.793	8596.542	-0.40	0.692	-20377.67 13566.09
TIME_V1SCAN	-8.585398	6.180078	-1.39	0.167	-20.78655 3.615751
w1BMI	500.9398	594.0427	0.84	0.400	-671.8631 1673.743
w1dxDiabetes	-5627.465	7395.975	-0.76	0.448	-20232.93 8978.002
w1Glucose	142.796	174.4084	0.82	0.414	-201.559 487.1511
_cons	697515.7	38366.96	18.18	0.000	621767 773264.4

182 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fin

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0079
		Largest FMI	=	0.0763
		Complete DF	=	169
DF adjustment:	Small sample	DF:	min	= 128.43
			avg	= 161.71
			max	= 167.03
Model F test:	Equal FMI	F(9, 166.9)	=	10.19
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2195.451	7981.207	-0.28	0.784	-17952.59 13561.69
Sex	55936.91	6800.303	8.23	0.000	42511.26 69362.56
w1Age	-633.8269	424.7558	-1.49	0.138	-1472.424 204.7701
Race	-18659.77	6958.027	-2.68	0.008	-32396.83 -4922.723
PovStat	-5544.929	7838.617	-0.71	0.480	-21020.46 9930.603
TIME_V1SCAN	-11.34285	5.63766	-2.01	0.046	-22.4732 -.2125139
w1BMI	60.90994	541.7305	0.11	0.911	-1008.616 1130.436
w1dxDiabetes	967.0911	6935.199	0.14	0.889	-12754.95 14689.13
w1Glucose	30.91558	160.9621	0.19	0.848	-287.0381 348.8693
_cons	458238.6	35095.71	13.06	0.000	388943.5 527533.7

183 .

184 .

185 . //ANALYSIS B//

186 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0045	
Largest FMI	=	0.0440	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 148.29
		avg	= 163.88
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	15.19
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-139.9912	52.56321	-2.66	0.009	-243.7701 -36.21235
Sex	-33.35215	59.53353	-0.56	0.576	-150.8926 84.18833
w1Age	-4.114229	2.798645	-1.47	0.143	-9.639806 1.411347
Race	-94.78534	49.97767	-1.90	0.060	-193.4592 3.888506
PovStat	-149.9793	51.64641	-2.90	0.004	-251.9476 -48.01093
TIME_V1SCAN	.0146452	.0373136	0.39	0.695	-.0590255 .0883158
w1BMI	.1734668	3.5705	0.05	0.961	-6.87599 7.222923
w1dxDiabetes	-9.484181	44.95965	-0.21	0.833	-98.32853 79.36017
w1Glucose	1.146429	1.05283	1.09	0.278	-.9327055 3.225564
ICV_volum2	.0016303	.0002176	7.49	0.000	.0012007 .00206
_cons	1834.979	356.8319	5.14	0.000	1130.454 2539.505

187 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucos

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0004	
Largest FMI	=	0.0043	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 165.25
		avg	= 165.93
		max	= 166.04
Model F test: Equal FMI	F(10, 166.0)	=	18.02
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-136.6963	54.04697	-2.53	0.012	-243.4042 -29.98838
Sex	-114.2575	61.22397	-1.87	0.064	-235.1353 6.620369
w1Age	-2.436341	2.876622	-0.85	0.398	-8.115818 3.243136
Race	-92.1923	51.3957	-1.79	0.075	-193.6657 9.281063
PovStat	-125.4079	53.11804	-2.36	0.019	-230.2818 -20.53409
TIME_V1SCAN	.051129	.0383662	1.33	0.184	-.0246196 .1268776
w1BMI	-.0634988	3.671534	-0.02	0.986	-7.312411 7.185413
w1dxDiabetes	-2.808488	45.33801	-0.06	0.951	-92.32493 86.70795
w1Glucose	1.619883	1.074067	1.51	0.133	-.5007331 3.7405
ICV_volum2	.0020569	.0002238	9.19	0.000	.001615 .0024988
_cons	1439.228	366.6353	3.93	0.000	715.3591 2163.098

```

188 .
189 . //ANALYSIS C//
190 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     179
Average RVI     =   0.0002
Largest FMI     =   0.0013
Complete DF      =     168
DF adjustment:  Small sample
DF:   min        =  165.84
      avg        =  166.00
      max        =  166.03
Model F test:    Equal FMI      F(  10,  166.0) =   1.30
Within VCE type: OLS          Prob > F    =  0.2350

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.102271	.6965812	1.58	0.115	-.2730273 2.47757
Sex	.4593421	.7891248	0.58	0.561	-1.098671 2.017356
w1Age	.0559864	.0370737	1.51	0.133	-.0172103 .129183
Race	1.077753	.6624233	1.63	0.106	-.2301058 2.385612
PovStat	.8515936	.6846281	1.24	0.215	-.5001054 2.203292
TIME_V1SCAN	-.000595	.0004945	-1.20	0.231	-.0015713 .0003813
w1BMI	.0388264	.0473208	0.82	0.413	-.0546015 .1322544
w1dxDiabetes	-.3122109	.5834874	-0.54	0.593	-1.464232 .8398103
w1Glucose	.0019309	.0138354	0.14	0.889	-.0253852 .029247
ICV_volum2	2.36e-06	2.88e-06	0.82	0.415	-3.34e-06 8.05e-06
_cons	-3.918644	4.725274	-0.83	0.408	-13.24802 5.410733

```

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

193 .
194 .
195 . //Males//
196 .
197 . use finaldata_imputed,clear

198 .
199 .
200 . //ANALYSIS A//
201 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sa

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     80
Average RVI     =   0.0096
Largest FMI     =   0.0832
Complete DF      =      71
DF adjustment:  Small sample
DF:   min        =  58.11
      avg        =  67.44
      max        =  69.04
Model F test:    Equal FMI      F(  8,  69.0) =   2.84
Within VCE type: OLS          Prob > F    =  0.0088

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-5973.914	27226.82	-0.22	0.827	-60289.45 48341.62
Sex	0	(omitted)			
w1Age	-2479.075	1608.085	-1.54	0.128	-5687.106 728.9556
Race	-91047.37	25134.46	-3.62	0.001	-141189.1 -40905.67
PovStat	18072.23	28475.01	0.63	0.528	-38733.24 74877.69
TIME_V1SCAN	-38.77395	20.69547	-1.87	0.065	-80.06109 2.513192
w1BMI	327.7982	2659.254	0.12	0.902	-4977.383 5632.979
w1dxDiabetes	17441.34	24091.6	0.72	0.472	-30781.35 65664.02
w1Glucose	-195.4217	468.0785	-0.42	0.678	-1129.952 739.1087
_cons	1524999	116782.1	13.06	0.000	1292014 1757984

202 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fi

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0037
Largest FMI	=	0.0339
Complete DF	=	71
DF adjustment: Small sample	DF:	min = 65.77
		avg = 68.57
		max = 69.07
Model F test: Equal FMI	F(8, 69.1)	= 4.76
Within VCE type: OLS	Prob > F	= 0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-12227.24	14186.15	-0.86	0.392	-40527.4 16072.93
Sex	0	(omitted)			
w1Age	-2459.845	837.7293	-2.94	0.005	-4131.043 -788.6464
Race	-64197.1	13092.52	-4.90	0.000	-90315.45 -38078.75
PovStat	4445.78	14837.43	0.30	0.765	-25153.65 34045.21
TIME_V1SCAN	-15.99881	10.77809	-1.48	0.142	-37.50041 5.502798
w1BMI	572.7917	1385.027	0.41	0.680	-2190.264 3335.847
w1dxDiabetes	2351.377	12254.03	0.19	0.848	-22116.21 26818.97
w1Glucose	-.1820373	241.6469	-0.00	0.999	-482.3589 481.9948
_cons	903536.7	60794.65	14.86	0.000	782253.8 1024820

203 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fi

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0144
Largest FMI	=	0.1210
Complete DF	=	71
DF adjustment: Small sample	DF:	min = 51.43
		avg = 66.41
		max = 69.04
Model F test: Equal FMI	F(8, 69.0)	= 1.71
Within VCE type: OLS	Prob > F	= 0.1117

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-3864.534	13221.46	-0.29	0.771	-30240.54 22511.47
Sex	0	(omitted)			
w1Age	-440.518	781.0605	-0.56	0.575	-1998.707 1117.671
Race	-26141.56	12208.49	-2.14	0.036	-50497.11 -1786.006
PovStat	3947.139	13826.07	0.29	0.776	-23634.86 31529.14
TIME_V1SCAN	-20.49781	10.05291	-2.04	0.045	-40.55355 -.4420614
w1BMI	-491.722	1291.748	-0.38	0.705	-3068.79 2085.346
w1dxDiabetes	11592.92	11920.49	0.97	0.335	-12333.65 35519.5
w1Glucose	-101.0812	229.0284	-0.44	0.660	-558.6294 356.4671
_cons	602354	56756.72	10.61	0.000	489117.3 715590.6

204 .

205 . //ANALYSIS B//

206 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	80
	Average RVI	=	0.0107
	Largest FMI	=	0.0931
	Complete DF	=	70
DF adjustment: Small sample	DF:	min	= 55.66
		avg	= 66.37
		max	= 68.08
Model F test: Equal FMI	F(9, 68.0)	=	8.64
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-198.1078	81.66891	-2.43	0.018	-361.0746 -35.14108
Sex	0	(omitted)			
w1Age	-3.466305	4.827271	-0.72	0.475	-13.09901 6.166402
Race	-23.51686	83.952	-0.28	0.780	-191.0371 144.0034
PovStat	-254.9209	85.58091	-2.98	0.004	-425.6934 -84.14849
TIME_V1SCAN	.0229829	.0631252	0.36	0.717	-.102982 .1489478
w1BMI	.5126908	7.977177	0.06	0.949	-15.40592 16.4313
w1dxDiabetes	36.16224	73.46687	0.49	0.624	-111.0295 183.354
w1Glucose	.9021481	1.415702	0.64	0.526	-1.925558 3.729854
ICV_volum2	.0020908	.000326	6.41	0.000	.0014402 .0027415
_cons	1103.508	657.2748	1.68	0.098	-208.2071 2415.222

207 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	80
	Average RVI	=	0.0020
	Largest FMI	=	0.0181
	Complete DF	=	70
DF adjustment: Small sample	DF:	min	= 66.62
		avg	= 67.86
		max	= 68.08
Model F test: Equal FMI	F(9, 68.1)	=	10.29
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-195.0294	81.85365	-2.38	0.020	-358.3624 -31.69634
Sex	0	(omitted)			
w1Age	-3.375044	4.83726	-0.70	0.488	-13.02747 6.277382
Race	-24.47235	84.17436	-0.29	0.772	-192.4362 143.4915
PovStat	-218.5914	85.78183	-2.55	0.013	-389.7628 -47.41997
TIME_V1SCAN	.082941	.0632543	1.31	0.194	-.0432785 .2091606
w1BMI	4.138669	7.990324	0.52	0.606	-11.80557 20.08291
w1dxDiabetes	36.57845	70.99417	0.52	0.608	-105.1412 178.2981
w1Glucose	1.826462	1.40003	1.30	0.196	-.9675731 4.620497
ICV_volum2	.0023889	.0003266	7.31	0.000	.0017372 .0030407
_cons	598.4059	657.4339	0.91	0.366	-713.4951 1910.307

```

208 .
209 . //ANALYSIS C //
210 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
Linear regression
Imputations = 5
Number of obs = 80
Average RVI = 0.0007
Largest FMI = 0.0070
Complete DF = 70
DF adjustment: Small sample
DF: min = 67.63
avg = 68.01
max = 68.08
Model F test: Equal FMI
F( 9, 68.1) = 0.69
Within VCE type: OLS
Prob > F = 0.7141

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.291355	.7975932	1.62	0.110	-.3001847 2.882894
Sex	0	(omitted)			
w1Age	-.0294863	.047131	-0.63	0.534	-.1235326 .0645601
Race	1.278802	.8201964	1.56	0.124	-.3578401 2.915445
PovStat	.2247998	.8358914	0.27	0.789	-1.443163 1.892762
TIME_V1SCAN	-.000621	.0006164	-1.01	0.317	-.0018509 .0006089
w1BMI	-.0187389	.0778461	-0.24	0.810	-.1740755 .1365977
w1dxDiabetes	-.1515908	.6880439	-0.22	0.826	-1.524697 1.221516
w1Glucose	-.0026562	.0136104	-0.20	0.846	-.0298158 .0245033
ICV_volum2	4.49e-07	3.18e-06	0.14	0.888	-5.90e-06 6.80e-06
_cons	6.362412	6.402029	0.99	0.324	-6.412444 19.13727

```

211 .
212 . save, replace
file finaldata_imputed.dta saved

213 .
214 .

```

```

215 .
216 . //Females//
217 .
218 . use finaldata_imputed,clear

219 .
220 .
221 . //ANALYSIS A//
222 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sa

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 88.06
		avg	= 88.06
		max	= 88.06
Model F test: Equal FMI	F(8, 88.1)	=	2.89
Within VCE type: OLS	Prob > F	=	0.0066

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2762.249	20079.91	-0.14	0.891	-42666.44 37141.94
Sex	0	(omitted)			
w1Age	-1979.931	1004.328	-1.97	0.052	-3975.802 15.93987
Race	-52117.98	16668.34	-3.13	0.002	-85242.47 -18993.49
PovStat	-22621.59	18837.99	-1.20	0.233	-60057.75 14814.57
TIME_V1SCAN	-5.505506	13.84035	-0.40	0.692	-33.01002 21.99901
w1BMI	971.5046	1132.469	0.86	0.393	-1279.016 3222.026
w1dxDiabetes	-24229.03	17568.67	-1.38	0.171	-59142.71 10684.65
w1Glucose	525.4493	525.2535	1.00	0.320	-518.371 1569.27
_cons	1219879	81038	15.05	0.000	1058835 1380923

```

223 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fi

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 88.06
		avg	= 88.06
		max	= 88.06
Model F test: Equal FMI	F(8, 88.1)	=	4.73
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1471.101	11079.96	0.13	0.895	-20547.76 23489.96
Sex	0	(omitted)			
w1Age	-1632.935	554.1814	-2.95	0.004	-2734.243 -531.6273
Race	-37513.68	9197.478	-4.08	0.000	-55791.55 -19235.81
PovStat	-7926.158	10394.67	-0.76	0.448	-28583.17 12730.86
TIME_V1SCAN	-2.280333	7.637013	-0.30	0.766	-17.45714 12.89647
w1BMI	810.1714	624.8886	1.30	0.198	-431.6507 2051.993
w1dxDiabetes	-16626.59	9694.271	-1.72	0.090	-35891.72 2638.542
w1Glucose	350.3711	289.8313	1.21	0.230	-225.6018 926.3441
_cons	703474.7	44716.22	15.73	0.000	614611.5 792337.9

224 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fin

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	99
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	90
DF adjustment:	Small sample	DF:	min	= 88.06
			avg	= 88.06
			max	= 88.06
Model F test:	Equal FMI	F(8, 88.1)	= 1.36
Within VCE type:	OLS	Prob > F		= 0.2270

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-901.7416	9833.574	-0.09	0.927	-20443.7 18640.22
Sex	0	(omitted)			
w1Age	-701.1806	491.8417	-1.43	0.158	-1678.603 276.2414
Race	-11552.13	8162.856	-1.42	0.161	-27773.93 4669.661
PovStat	-13797.32	9225.378	-1.50	0.138	-32130.63 4535.998
TIME_V1SCAN	-2.664454	6.777927	-0.39	0.695	-16.13402 10.80511
w1BMI	337.7814	554.595	0.61	0.544	-764.3483 1439.911
w1dxDiabetes	-9620.015	8603.764	-1.12	0.267	-26718.01 7477.983
w1Glucose	176.3885	257.2282	0.69	0.495	-334.7934 687.5703
_cons	481796.3	39686.1	12.14	0.000	402929.3 560663.3

225 .

226 .

227 . //ANALYSIS B//

228 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	99
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment:	Small sample	DF:	min	= 87.07
			avg	= 87.07
			max	= 87.07
Model F test:	Equal FMI	F(9, 87.1)	= 4.99
Within VCE type:	OLS	Prob > F		= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-47.7271	67.12298	-0.71	0.479	-181.1399 85.68568
Sex	0	(omitted)			
w1Age	-5.648199	3.359451	-1.68	0.096	-12.3254 1.029002
Race	-142.935	59.14005	-2.42	0.018	-260.481 -25.389
PovStat	-60.2918	63.35879	-0.95	0.344	-186.2229 65.63933
TIME_V1SCAN	.0056564	.046271	0.12	0.903	-.0863113 .0976241
w1BMI	.8687417	3.791224	0.23	0.819	-6.666647 8.404131
w1dxDiabetes	-111.3155	59.53511	-1.87	0.065	-229.6467 7.015757
w1Glucose	2.819276	1.778949	1.58	0.117	-.7165403 6.355093
ICV_volum2	.0009769	.0002975	3.28	0.001	.0003855 .0015683
_cons	2477.369	476.1654	5.20	0.000	1530.949 3423.789

229 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	89	
DF adjustment: Small sample	DF:	min	= 87.07
		avg	= 87.07
		max	= 87.07
Model F test: Equal FMI	F(9, 87.1)	=	6.33
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-51.61347	73.1354	-0.71	0.482	-196.9765 93.74952
Sex	0	(omitted)			
w1Age	-2.951774	3.660367	-0.81	0.422	-10.22707 4.323526
Race	-141.8493	64.43741	-2.20	0.030	-269.9243 -13.77434
PovStat	-29.41106	69.03404	-0.43	0.671	-166.6222 107.8001
TIME_V1SCAN	.030479	.0504157	0.60	0.547	-.0697266 .1306845
w1BMI	-.5816173	4.130816	-0.14	0.888	-8.791975 7.628741
w1dxDiabetes	-69.00651	64.86786	-1.06	0.290	-197.937 59.92403
w1Glucose	1.840337	1.938295	0.95	0.345	-2.012194 5.692868
ICV_volum2	.0016677	.0003242	5.14	0.000	.0010234 .0023121
_cons	1804.457	518.817	3.48	0.001	773.2625 2835.651

230 .

231 . //ANALYSIS C//

232 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	89	
DF adjustment: Small sample	DF:	min	= 87.07
		avg	= 87.07
		max	= 87.07
Model F test: Equal FMI	F(9, 87.1)	=	1.37
Within VCE type: OLS	Prob > F	=	0.2143

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.033727	1.144545	0.90	0.369	-1.241156 3.30861
Sex	0	(omitted)			
w1Age	.1304726	.0572835	2.28	0.025	.0166165 .2443286
Race	.9425775	1.008424	0.93	0.353	-1.061754 2.946909
PovStat	1.428746	1.08036	1.32	0.189	-.7185641 3.576056
TIME_V1SCAN	-.0005988	.000789	-0.76	0.450	-.0021669 .0009694
w1BMI	.083626	.0646459	1.29	0.199	-.0448634 .2121154
w1dxDiabetes	-.2316293	1.015161	-0.23	0.820	-2.24935 1.786091
w1Glucose	-.0010684	.0303337	-0.04	0.972	-.0613593 .0592224
ICV_volum2	5.69e-06	5.07e-06	1.12	0.265	-4.40e-06 .0000158
_cons	-12.84099	8.119316	-1.58	0.117	-28.97884 3.296858

```

233 .
234 . save, replace
    file finaldata_imputed.dta saved

235 .
236 .
237 . //INTERACTION BY Sex//
238 .
239 .
240 .
241 . //ANALYSIS A//
242 . mi estimate: reg TOTALBRAIN c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucos

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0049	
Largest FMI	=	0.0527	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 143.09
		avg	= 163.16
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	13.95
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-739.2677	22127.87	-0.03	0.973	-44427.6 42949.07
Sex					
Men	139528.6	17988.14	7.76	0.000	104013.6 175043.7
Sex#c.NFLw1w3trackhigh					
Men	-4722.17	29164.13	-0.16	0.872	-62302.53 52858.19
Sex	0 (omitted)				
w1Age	-2215.009	880.4772	-2.52	0.013	-3953.404 -476.6137
Race	-70703.87	14370.77	-4.92	0.000	-99076.95 -42330.8
PovStat	-4011.152	16257.26	-0.25	0.805	-36108.75 28086.45
TIME_V1SCAN	-20.95874	11.62708	-1.80	0.073	-43.91484 1.997354
w1BMI	605.5403	1130.192	0.54	0.593	-1625.869 2836.95
w1dxDiabetes	-2083.968	14103.59	-0.15	0.883	-29962.28 25794.34
w1Glucose	121.1345	329.6676	0.37	0.714	-529.9409 772.21
_cons	1304980	69349.05	18.82	0.000	1168051 1441908

```

243 . mi estimate: reg GM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sa

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0020	
Largest FMI	=	0.0215	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 159.74
		avg	= 165.20
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	16.28
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	3731.711	11789.57	0.32	0.752	-19545.09 27008.51
Sex					
Men	78121.75	9584.843	8.15	0.000	59197.82 97045.69
Sex#c.NFLw1w3trackhigh					
Men	-16615.32	15539.6	-1.07	0.287	-47296.02 14065.38
Sex	0 (omitted)				
w1Age	-2003.173	468.9725	-4.27	0.000	-2929.097 -1077.249
Race	-50067.35	7657.018	-6.54	0.000	-65185.05 -34949.64
PovStat	-2235.039	8662.334	-0.26	0.797	-19337.56 14867.48
TIME_V1SCAN	-8.105237	6.193763	-1.31	0.192	-20.33394 4.123467
w1BMI	607.8124	602.1672	1.01	0.314	-581.0835 1796.708
w1dxDiabetes	-5774.228	7399.237	-0.78	0.436	-20387.17 8838.717
w1Glucose	149.62	174.5005	0.86	0.392	-194.9346 494.1745
_cons	763799.8	36885.32	20.71	0.000	690973 836626.6

244 . mi estimate: reg WM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sam

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0071
	Largest FMI	=	0.0757
	Complete DF	=	168
DF adjustment: Small sample	DF:	min	= 128.18
		avg	= 161.29
		max	= 166.03
Model F test: Equal FMI	F(10, 165.9)	=	9.12
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2613.522	10787.82	-0.24	0.809	-23912.56 18685.51
Sex					
Men	55618.41	8769.072	6.34	0.000	38305.12 72931.71
Sex#c.NFLw1w3trackhigh					
Men	821.7103	14217.35	0.06	0.954	-27248.4 28891.82
Sex	0 (omitted)				
w1Age	-630.7256	429.3582	-1.47	0.144	-1478.446 216.9944
Race	-18624.08	7005.806	-2.66	0.009	-32456.06 -4792.096
PovStat	-5602.831	7925.415	-0.71	0.481	-21250.41 10044.75
TIME_V1SCAN	-11.36662	5.669169	-2.00	0.047	-22.55965 -.1735777
w1BMI	55.62614	550.9876	0.10	0.920	-1032.224 1143.476
w1dxDiabetes	974.1866	6955.025	0.14	0.889	-12787.33 14735.7
w1Glucose	30.58054	161.5297	0.19	0.850	-288.5068 349.6679
_cons	514442.1	33853.22	15.20	0.000	447597.2 581287.1

245 .

246 .

247 . //ANALYSIS B//

248 . mi estimate: reg Left_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0044
Largest FMI	= 0.0478
Complete DF	= 167
DF adjustment: Small sample	DF: min = 145.25
	avg = 162.84
	max = 165.04
Model F test: Equal FMI	F(11, 165.0) = 14.02
Within VCE type: OLS	Prob > F = 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-78.87835	70.71328	-1.12	0.266	-218.4979 60.74115
Sex					
Men	12.34577	69.19822	0.18	0.859	-124.2824 148.974
Sex#c.NFLw1w3trackhigh					
Men	-120.0959	93.1941	-1.29	0.199	-304.1023 63.91059
Sex	0 (omitted)				
w1Age	-4.564728	2.815025	-1.62	0.107	-10.12289 .993438
Race	-99.56549	50.01766	-1.99	0.048	-198.3227 -.8083032
PovStat	-141.4864	51.96474	-2.72	0.007	-244.0878 -38.88498
TIME_V1SCAN	.0181979	.0373429	0.49	0.627	-.055534 .0919297
w1BMI	.9428382	3.613324	0.26	0.794	-6.191489 8.077166
w1dxDiabetes	-10.56118	44.96463	-0.23	0.815	-99.43068 78.30833
w1Glucose	1.195488	1.052304	1.14	0.258	-.8827632 3.273739
ICV_volM2	.0016351	.0002172	7.53	0.000	.0012062 .002064
_cons	1755.835	382.1245	4.59	0.000	1001.34 2510.329

249 . mi estimate: reg Right_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0005
Largest FMI	= 0.0056
Complete DF	= 167
DF adjustment: Small sample	DF: min = 163.96
	avg = 164.90
	max = 165.04
Model F test: Equal FMI	F(11, 165.0) = 16.69
Within VCE type: OLS	Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-65.34448	72.61752	-0.90	0.370	-208.7236 78.03466
Sex					
Men	-60.90351	71.05894	-0.86	0.393	-201.2053 79.39832
Sex#c.NFLw1w3trackhigh					
Men	-140.2166	95.70996	-1.47	0.145	-329.1905 48.75718
Sex	0 (omitted)				
w1Age	-2.962329	2.889304	-1.03	0.307	-8.6671 2.742442

Race	-97.77342	51.36291	-1.90	0.059	-199.1866	3.639715
PovStat	-115.4921	53.36868	-2.16	0.032	-220.8655	-10.11874
TIME_V1SCAN	.055277	.038341	1.44	0.151	-.0204251	.1309792
w1BMI	.8347622	3.710122	0.22	0.822	-6.490662	8.160187
w1dxDiabetes	-4.064774	45.22206	-0.09	0.928	-93.35745	85.2279
w1Glucose	1.677144	1.071422	1.57	0.119	-.4383542	3.792642
ICV_volM2	.0020624	.0002231	9.24	0.000	.0016219	.0025029
_cons	1271.508	392.1158	3.24	0.001	497.2965	2045.719

250 .

251 . //ANALYSIS C//

252 . mi estimate: reg LnLesion_Volume c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1G

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0001	
Largest FMI	=	0.0011	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	= 164.87
		avg	= 165.01
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	1.22
Within VCE type: OLS	Prob > F	=	0.2785

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.528616	.9406446	1.63	0.106	-.3286333 3.385864
Sex					
Men	.7781468	.9205009	0.85	0.399	-1.039331 2.595624
Sex#c.NFLw1w3trackhigh					
Men	-.8378306	1.239788	-0.68	0.500	-3.285721 1.610059
Sex	0 (omitted)				
w1Age	.0528435	.0374239	1.41	0.160	-.0210478 .1267349
Race	1.044405	.6653301	1.57	0.118	-.2692509 2.358062
PovStat	.910843	.6913185	1.32	0.189	-.4541258 2.275812
TIME_V1SCAN	-.0005702	.0004966	-1.15	0.253	-.0015508 .0004104
w1BMI	.0441938	.0480584	0.92	0.359	-.0506946 .1390823
w1dxDiabetes	-.3197262	.5844922	-0.55	0.585	-1.473781 .8343284
w1Glucose	.0022732	.0138665	0.16	0.870	-.0251055 .0296519
ICV_volM2	2.39e-06	2.89e-06	0.83	0.410	-3.32e-06 8.09e-06
_cons	-3.778771	5.07906	-0.74	0.458	-13.80709 6.249551

253 .

254 . save, replace
file finaldata_imputed.dta saved

255 .

```

256 .
257 .
258 .
259 . *****MODEL 4: MODEL 2+liver/kidney disease*****
260 .
261 . //Overall//
262 .
263 . use finaldata_imputed,clear

264 .
265 .
266 . //ANALYSIS A//
267 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1B

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0262	
Largest FMI	=	0.2748	
Complete DF	=	166	
DF adjustment: Small sample	DF:	min	= 42.08
		avg	= 152.17
		max	= 164.00
Model F test: Equal FMI	F(12, 163.4)	=	13.16
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-9763.146	16137.09	-0.61	0.546	-41626.71 22100.42
Sex	167081.2	17380.14	9.61	0.000	132728.3 201434.1
w1Age	-1482.705	892.7166	-1.66	0.099	-3245.404 279.9949
Race	-67818.18	14870.55	-4.56	0.000	-97184.05 -38452.32
PovStat	-2164.455	15698.68	-0.14	0.891	-33162.14 28833.23
TIME_V1SCAN	-22.01536	11.24271	-1.96	0.052	-44.21508 .1843658
w1BMI	2133.494	1160.407	1.84	0.068	-157.781 4424.77
w1Creatinine	-13744.26	39699.53	-0.35	0.731	-93856.58 66368.07
w1USpecGrav	64513.65	1145467	0.06	0.955	-2197271 2326298
w1BUN	34.74674	1986.069	0.02	0.986	-3888.164 3957.658
w1ALP	306.844	330.0018	0.93	0.354	-344.758 958.4459
w1UricAcid	-18592.7	5728.82	-3.25	0.001	-29904.87 -7280.534
_cons	1080354	1152728	0.94	0.350	-1195767 3356474

```

268 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates  

Linear regression


|                             | Imputations   | =      | 5        |
|-----------------------------|---------------|--------|----------|
| Number of obs               | =             | 179    |          |
| Average RVI                 | =             | 0.0203 |          |
| Largest FMI                 | =             | 0.2217 |          |
| Complete DF                 | =             | 166    |          |
| DF adjustment: Small sample | DF:           | min    | = 55.49  |
|                             |               | avg    | = 153.68 |
|                             |               | max    | = 163.96 |
| Model F test: Equal FMI     | F( 12, 163.6) | =      | 14.27    |
| Within VCE type: OLS        | Prob > F      | =      | 0.0000   |


```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-8104.356	8755.385	-0.93	0.356	-25392.67 9183.955
Sex	83595.36	9385.079	8.91	0.000	65049.74 102141
w1Age	-1762.585	484.3759	-3.64	0.000	-2719.019 -806.1507
Race	-47877.37	8042.537	-5.95	0.000	-63758.63 -31996.12
PovStat	-1956.265	8507.812	-0.23	0.818	-18755.26 14842.73
TIME_V1SCAN	-8.893386	6.097186	-1.46	0.147	-20.93296 3.146184
w1BMI	1159.745	629.8039	1.84	0.067	-83.86138 2403.351
w1Creatinine	3580.966	20877.86	0.17	0.864	-38250.96 45412.89
w1USpecGrav	-250816.1	621153	-0.40	0.687	-1477325 975692.9
w1BUN	474.0738	1072.729	0.44	0.659	-1644.506 2592.654
w1ALP	226.7949	178.9938	1.27	0.207	-126.6401 580.2299
w1UricAcid	-8532.184	3102.997	-2.75	0.007	-14659.31 -2405.063
_cons	938196.8	625207.5	1.50	0.135	-296322.1 2172716

269 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0403	
Largest FMI	=	0.3683	
Complete DF	=	166	
DF adjustment: Small sample	DF:	min	= 27.30
		avg	= 147.58
		max	= 163.92
Model F test: Equal FMI	F(12, 162.7)	=	8.97
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-5013.769	7847.698	-0.64	0.524	-20509.6 10482.07
Sex	71597.71	8586.731	8.34	0.000	54601.57 88593.86
w1Age	-234.2263	434.7804	-0.54	0.591	-1092.745 624.2919
Race	-17448.03	7262.122	-2.40	0.017	-31791.3 -3104.77
PovStat	-4692.907	7630.994	-0.61	0.539	-19760.63 10374.81
TIME_V1SCAN	-11.70168	5.469863	-2.14	0.034	-22.5026 -.9007648
w1BMI	854.4399	565.9359	1.51	0.133	-263.1006 1971.98
w1Creatinine	-15015.16	20443.13	-0.73	0.469	-56939.4 26909.07
w1USpecGrav	122241.2	559019.8	0.22	0.827	-981666 1226148
w1BUN	-192.2201	978.1893	-0.20	0.844	-2125.83 1741.39
w1ALP	116.8294	160.4194	0.73	0.467	-199.9256 433.5844
w1UricAcid	-8709.536	2786.704	-3.13	0.002	-14212.26 -3206.807
_cons	326144	562621.9	0.58	0.563	-784879.2 1437167

270 .

271 .

272 . //ANALYSIS B//

273 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0488	
Largest FMI	=	0.4109	
Complete DF	=	165	
DF: min	=	22.84	
	avg	= 146.66	
	max	= 163.00	
DF adjustment: Small sample	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-135.4653	53.97069	-2.51	0.013	-242.044 -28.88658
Sex	-26.92917	75.7004	-0.36	0.723	-176.604 122.7456
w1Age	-4.405329	2.9794	-1.48	0.141	-10.28861 1.477949
Race	-83.26319	54.08623	-1.54	0.126	-190.0876 23.56121
PovStat	-141.4948	52.34936	-2.70	0.008	-244.8661 -38.12345
TIME_V1SCAN	.0096852	.0378143	0.26	0.798	-.0649906 .084361
w1BMI	1.143953	3.900574	0.29	0.770	-6.558241 8.846147
w1Creatinine	17.00641	144.3979	0.12	0.907	-281.82 315.8328
w1USpecGrav	-2223.4	3896.475	-0.57	0.569	-9923.73 5476.93
w1BUN	6.545774	6.719428	0.97	0.332	-6.737466 19.82901
w1ALP	.4188683	1.104273	-0.38	0.705	-2.599502 1.761766
w1UricAcid	-7.685073	19.52989	-0.39	0.694	-46.25139 30.88124
ICV_volum2	.0016513	.0002267	7.29	0.000	.0012038 .0020989
_cons	4109.811	3923.242	1.05	0.297	-3643.509 11863.13

274 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecG
> 1

Multiple-imputation estimates
Linear regression

Imputations	=	5		
Number of obs	=	179		
Average RVI	=	0.0183		
Largest FMI	=	0.1716		
Complete DF	=	165		
DF:	min	= 73.25		
	avg	= 153.83		
	max	= 162.89		
F(12, .)	=	.		
Within VCE type:	OLS	Prob > F	=	.

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-140.0879	55.42179	-2.53	0.012	-249.5282 -30.64756
Sex	-100.325	76.41944	-1.31	0.191	-251.2586 50.60861
w1Age	-2.648439	3.064821	-0.86	0.389	-8.700397 3.403518
Race	-76.67901	55.29932	-1.39	0.167	-185.88 32.52199
PovStat	-116.1414	53.83353	-2.16	0.032	-222.443 -9.839856
TIME_V1SCAN	.0397098	.0388602	1.02	0.308	-.0370295 .1164492
w1BMI	1.377534	4.015028	0.34	0.732	-6.550753 9.305822
w1Creatinine	61.54052	128.6599	0.48	0.634	-194.8637 317.9447
w1USpecGrav	110.1521	3994.667	0.03	0.978	-7782.656 8002.96
w1BUN	10.01562	6.790376	1.47	0.142	-3.395207 23.42644
w1ALP	.2942683	1.135688	0.26	0.796	-1.948393 2.536929
w1UricAcid	-18.82828	20.05668	-0.94	0.349	-58.43356 20.777
ICV_volum2	.0020631	.0002332	8.85	0.000	.0016025 .0025236
_cons	1305.811	4021.057	0.32	0.746	-6639.109 9250.731

275 .

```

276 . //ANALYSIS C//
277 .
278 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0027	
Largest FMI	=	0.0303	
Complete DF	=	165	
DF: min	=	153.03	
avg	=	162.13	
max	=	163.00	
DF adjustment: Small sample	F(12, .)	=	.
Within VCE type: OLS	Prob > F	=	.

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.179947	.7093052	1.66	0.098	-.2206694 2.580563
Sex	-.0194559	.9722673	-0.02	0.984	-1.939364 1.900452
w1Age	.0461742	.0392642	1.18	0.241	-.0313586 .1237069
Race	1.277915	.7069488	1.81	0.073	-.1180483 2.673879
PovStat	.8056199	.6897468	1.17	0.245	-.5563717 2.167611
TIME_V1SCAN	-.0006033	.0004966	-1.21	0.226	-.0011584 .0003774
w1BMI	.0164192	.0514206	0.32	0.750	-.0851173 .1179558
w1Creatinine	.4235668	1.534585	0.28	0.783	-.2.608139 3.455272
w1USpecGrav	32.60819	50.36402	0.65	0.518	-66.8431 132.0595
w1BUN	.0779066	.086469	0.90	0.369	-.0928396 .2486529
w1ALP	-.0083663	.014524	-0.58	0.565	-.0370458 .0203133
w1UricAcid	.0253025	.2567775	0.10	0.922	-.4817385 .5323434
ICV_volum2	2.78e-06	2.99e-06	0.93	0.353	-3.12e-06 8.68e-06
_cons	-37.02997	50.70303	-0.73	0.466	-137.1508 63.09084

```

279 .
280 . save, replace
  file finaldata_imputed.dta saved

```

```

281 .
282 . //Males//
283 .
284 . use finaldata_imputed,clear

```

```

285 .
286 .
287 . //ANALYSIS A//
288 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1B

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0538	
Largest FMI	=	0.4320	
Complete DF	=	68	
DF: min	=	16.27	
avg	=	60.06	
max	=	66.04	
DF adjustment: Small sample	F(11, 65.4)	=	2.69
Model F test: Equal FMI	Prob > F	=	0.0065
Within VCE type: OLS			

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-33731.94	28221.56	-1.20	0.236	-90077.61 22613.73
Sex	0	(omitted)			
w1Age	-2007.344	1697.478	-1.18	0.241	-5396.577 1381.888
Race	-95303.27	27397.42	-3.48	0.001	-150080.8 -40525.73
PovStat	20458.29	27934.43	0.73	0.467	-35319.87 76236.45
TIME_V1SCAN	-40.94581	19.56201	-2.09	0.040	-80.01653 -1.875078
w1BMI	3845.509	2809.543	1.37	0.176	-1769.471 9460.489
w1Creatinine	-29592.1	84624.6	-0.35	0.731	-208742.7 149558.5
w1USpecGrav	-2491912	2009514	-1.24	0.219	-6504860 1521035
w1BUN	190.6254	3481.207	0.05	0.957	-6784.378 7165.629
w1ALP	547.7864	684.0836	0.80	0.426	-818.0159 1913.589
w1UricAcid	-21435.01	11438.91	-1.87	0.065	-44273.71 1403.677
_cons	4071155	2043883	1.99	0.051	-10553.87 8152864

289 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0630	
Largest FMI	=	0.4757	
Complete DF	=	68	
DF adjustment: Small sample	DF:	min	= 14.09
		avg	= 59.47
		max	= 66.04
Model F test: Equal FMI	F(11, 65.3)	=	4.12
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-25430.03	14654.05	-1.74	0.087	-54688.39 3828.327
Sex	0	(omitted)			
w1Age	-2291.542	881.2467	-2.60	0.011	-4051.107 -531.9762
Race	-65865.42	14204.57	-4.64	0.000	-94263.62 -37467.21
PovStat	7919.025	14482.75	0.55	0.586	-20998.46 36836.51
TIME_V1SCAN	-16.68207	10.15011	-1.64	0.107	-36.87464 3.670501
w1BMI	2170.559	1459.112	1.49	0.142	-745.7366 5086.854
w1Creatinine	330.2108	45331.71	0.01	0.994	-96835.93 97496.35
w1USpecGrav	-1697095	1046758	-1.62	0.110	-3787895 393705.1
w1BUN	432.9219	1823.469	0.24	0.813	-3225.48 4091.323
w1ALP	328.838	354.9327	0.93	0.358	-379.7997 1037.476
w1UricAcid	-10975.91	5936.811	-1.85	0.069	-22829.35 877.5327
_cons	2624676	1065342	2.46	0.016	496592.2 4752761

290 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0448	
Largest FMI	=	0.3693	
Complete DF	=	68	
DF adjustment: Small sample	DF:	min	= 20.15
		avg	= 59.91
		max	= 66.04
Model F test: Equal FMI	F(11, 65.6)	=	1.88
Within VCE type: OLS	Prob > F	=	0.0583

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-16186.68	13727.71	-1.18	0.243	-43595.4 11222.05
Sex	0 (omitted)				
w1Age	-333.3821	826.9865	-0.40	0.688	-1984.724 1317.96
Race	-29464.45	13277.18	-2.22	0.030	-56003.24 -2925.657
PovStat	4186.498	13563.07	0.31	0.759	-22894.22 31267.22
TIME_V1SCAN	-22.23575	9.518292	-2.34	0.023	-41.24747 -3.224038
w1BMI	1509.53	1371.651	1.10	0.275	-1232.777 4251.837
w1Creatinine	-25724.67	39454.54	-0.65	0.522	-107987.3 56537.92
w1USpecGrav	-1237930	988497.7	-1.25	0.215	-3213447 737585.8
w1BUN	-419.1175	1691.145	-0.25	0.805	-3807.222 2968.987
w1ALP	303.3247	332.6029	0.91	0.365	-360.7361 967.3855
w1UricAcid	-8631.548	5558.049	-1.55	0.125	-19728.43 2465.335
_cons	1874680	1005648	1.86	0.067	-135248.1 3884607

291 .

292 .

293 . //ANALYSIS B//

294 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0680	
Largest FMI	=	0.4796	
Complete DF	=	67	
DF adjustment: Small sample	DF:	min	= 13.84
		avg	= 58.07
		max	= 64.90
Model F test: Equal FMI	F(11, 64.2)	=	6.15
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-209.9036	90.55232	-2.32	0.024	-390.7682 -29.03909
Sex	0 (omitted)				
w1Age	-2.337605	5.422232	-0.43	0.668	-13.16933 8.49412
Race	-38.80988	96.52635	-0.40	0.689	-231.7072 154.0874
PovStat	-253.5843	89.03413	-2.85	0.006	-431.4191 -75.74946
TIME_V1SCAN	-.0003843	.0634921	-0.01	0.995	-.1272093 .1264407
w1BMI	4.279163	9.020428	0.47	0.637	-13.74981 22.30814
w1Creatinine	15.86837	279.5544	0.06	0.956	-584.3548 616.0915
w1USpecGrav	-469.3587	6632.677	-0.07	0.944	-13754.95 12816.23
w1BUN	1.850752	11.18456	0.17	0.869	-20.59381 24.29531
w1ALP	-.873369	2.181495	-0.40	0.690	-5.230242 3.483504
w1UricAcid	-27.11802	37.17435	-0.73	0.468	-101.3702 47.1342
ICV_volumM2	.0020586	.0003479	5.92	0.000	.0013636 .0027535
_cons	1836.424	6850.775	0.27	0.790	-11889.28 15562.13

295 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > 1 & Sex==2

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	80
		Average RVI	=	0.0406
		Largest FMI	=	0.3306
		Complete DF	=	67
DF adjustment:	Small sample	DF:	min	= 22.93
			avg	= 59.72
			max	= 64.97
Model F test:	Equal FMI	F(11, 64.7)	=	7.84
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-230.2529	89.66433	-2.57	0.013	-409.3354 -51.17038
Sex	0	(omitted)			
w1Age	-1.015683	5.362762	-0.19	0.850	-11.72741 9.696046
Race	-10.65902	95.20217	-0.11	0.911	-200.8512 179.5331
PovStat	-213.1388	88.13733	-2.42	0.018	-389.1719 -37.10568
TIME_V1SCAN	.0473745	.0628148	0.75	0.453	-.0780863 .1728353
w1BMI	8.904808	8.881334	1.00	0.320	-8.838396 26.64801
w1Creatinine	31.79693	249.9237	0.13	0.900	-485.298 548.8919
w1USpecGrav	1382.711	6557.096	0.21	0.834	-11747.32 14512.75
w1BUN	13.77264	10.86121	1.27	0.210	-7.965597 35.51088
w1ALP	-.1349049	2.161242	-0.06	0.950	-4.451236 4.181427
w1UricAcid	-61.0055	36.80894	-1.66	0.102	-134.5242 12.51322
ICV_volum2	.0023278	.0003444	6.76	0.000	.00164 .0030156
_cons	-553.7055	6765.749	-0.08	0.935	-14102.96 12995.55

296 .

297 . //ANALYSIS C//

298 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==2

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	80
		Average RVI	=	0.0075
		Largest FMI	=	0.0525
		Complete DF	=	67
DF adjustment:	Small sample	DF:	min	= 59.65
			avg	= 64.25
			max	= 65.06
Model F test:	Equal FMI	F(11, 65.0)	=	1.00
Within VCE type:	OLS	Prob > F	=	0.4566

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.766664	.8495387	2.08	0.042	.0699891 3.463339
Sex	0	(omitted)			
w1Age	-.023008	.0508144	-0.45	0.652	-.1245017 .0784857
Race	1.229652	.8972056	1.37	0.175	-.562208 3.021512
PovStat	.1505642	.8346732	0.18	0.857	-1.516395 1.817523
TIME_V1SCAN	-.0005497	.0005952	-0.92	0.359	-.0017384 .0006389
w1BMI	-.0971817	.0841598	-1.15	0.252	-.26531 .0709467
w1Creatinine	1.489985	2.042378	0.73	0.469	-2.595872 5.575842
w1USpecGrav	55.60126	60.41231	0.92	0.361	-65.07428 176.2768
w1BUN	-.0743778	.1004222	-0.74	0.462	-.2749665 .1262109
w1ALP	-.0278239	.0204848	-1.36	0.179	-.0687343 .0130865
w1UricAcid	.3292346	.3489324	0.94	0.349	-.3676754 1.026145
ICV_volum2	2.00e-06	3.28e-06	0.61	0.543	-4.55e-06 8.55e-06

_cons	-51.68216	62.32152	-0.83	0.410	-176.1758	72.81146
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```

299 .
300 . save, replace
      file finaldata_imputed.dta saved

301 .
302 .
303 .
304 . //Females//
305 .
306 . use finaldata_imputed,clear

307 .
308 .
309 . //ANALYSIS A//
310 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1B

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	99
Average RVI	=	0.0200
Largest FMI	=	0.2031
Complete DF	=	87
DF adjustment: Small sample		
DF:	min	= 43.37
	avg	= 81.30
	max	= 85.00
Model F test: Equal FMI	F(11, 84.9)	= 3.15
Within VCE type: OLS	Prob > F	= 0.0013

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	6981.747	20231.49	0.35	0.731	-33251.5 47214.99
Sex	0	(omitted)			
w1Age	-1048.629	1071.908	-0.98	0.331	-3179.869 1082.612
Race	-55862.19	16748.79	-3.34	0.001	-89165.65 -22558.74
PovStat	-21871.81	18252.96	-1.20	0.234	-58164.21 14420.59
TIME_V1SCAN	-.9837141	13.2411	-0.07	0.941	-27.31081 25.34338
w1BMI	2648.166	1226.736	2.16	0.034	209.0275 5087.304
w1Creatinine	-2922.595	43789.58	-0.07	0.947	-91210.96 85365.77
w1USpecGrav	1966083	1324353	1.48	0.141	-667089.8 4599256
w1BUN	-1896.088	2503.019	-0.76	0.451	-6873.302 3081.127
w1ALP	88.56354	374.4395	0.24	0.814	-655.9494 833.0765
w1UricAcid	-19457.08	6862.31	-2.84	0.006	-33101.53 -5812.631
_cons	-724580.5	1338081	-0.54	0.590	-3385045 1935884

```

311 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	99
Average RVI	=	0.0346
Largest FMI	=	0.3212
Complete DF	=	87
DF adjustment: Small sample		
DF:	min	= 26.79
	avg	= 79.73
	max	= 85.02
Model F test: Equal FMI	F(11, 84.6)	= 3.80
Within VCE type: OLS	Prob > F	= 0.0002

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	5584.943	11526.22	0.48	0.629	-17339.7	28509.59
Sex	0	(omitted)				
w1Age	-1312.863	608.9679	-2.16	0.034	-2523.659	-102.0668
Race	-40000.05	9529.215	-4.20	0.000	-58949.15	-21050.96
PovStat	-8317.762	10377.98	-0.80	0.425	-28952.92	12317.4
TIME_V1SCAN	.4336302	7.51869	0.06	0.954	-14.51549	15.38275
w1BMI	1570.632	696.457	2.26	0.027	185.8799	2955.384
w1Creatinine	2671.895	26608.39	0.10	0.921	-51943.91	57287.7
w1USpecGrav	810066.3	752265.2	1.08	0.285	-685639.2	2305772
w1BUN	-669.5643	1427.059	-0.47	0.640	-3507.69	2168.562
w1ALP	93.87517	212.8069	0.44	0.660	-329.264	517.0143
w1UricAcid	-9222.192	3900.295	-2.36	0.020	-16977.35	-1467.031
_cons	-88417.46	760008.6	-0.12	0.908	-1599514	1422679

312 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0045
	Largest FMI	=	0.0288
	Complete DF	=	87
DF adjustment: Small sample	DF:	min	= 81.48
		avg	= 84.58
		max	= 84.98
Model F test:	Equal FMI	F(11, 85.0)	= 2.33
Within VCE type:	OLS	Prob > F	= 0.0146

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	4972.023	9713.343	0.51	0.610	-14341.82	24285.86
Sex	0	(omitted)				
w1Age	-266.9941	516.4688	-0.52	0.607	-1293.877	759.8889
Race	-11621.27	8058.414	-1.44	0.153	-27643.99	4401.451
PovStat	-12984.02	8789.401	-1.48	0.143	-30459.75	4491.711
TIME_V1SCAN	-1.28729	6.380948	-0.20	0.841	-13.97455	11.39997
w1BMI	1142.669	591.9765	1.93	0.057	-34.43361	2319.772
w1Creatinine	-9041.296	19303.97	-0.47	0.641	-47446.69	29364.1
w1USpecGrav	1154156	638117.9	1.81	0.074	-114601.1	2422914
w1BUN	-540.747	1202.214	-0.45	0.654	-2931.084	1849.59
w1ALP	-7.119202	180.361	-0.04	0.969	-365.7364	351.498
w1UricAcid	-9942.725	3305.416	-3.01	0.003	-16514.91	-3370.544
_cons	-665780.7	644736	-1.03	0.305	-1947695	616133.8

313 .

314 .

315 . //ANALYSIS B//

316 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==1

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	99
		Average RVI	=	0.0017
		Largest FMI	=	0.0185
		Complete DF	=	86
DF adjustment:	Small sample	DF:	min	= 82.08
			avg	= 83.88
			max	= 84.06
Model F test:	Equal FMI	F(12, 84.1)	=	3.56
Within VCE type:	OLS	Prob > F	=	0.0003

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-29.54404	71.32397	-0.41	0.680	-171.38 112.2919
Sex	0	(omitted)			
w1Age	-8.332223	3.803419	-2.19	0.031	-15.89566 -.7687879
Race	-120.691	64.06915	-1.88	0.063	-248.0985 6.716601
PovStat	-58.52101	65.10268	-0.90	0.371	-187.9836 70.9416
TIME_V1SCAN	.0118243	.0468947	0.25	0.802	-.08143 .1050787
w1BMI	.9872628	4.418756	0.22	0.824	-7.799833 9.774358
w1Creatinine	-18.02078	141.353	-0.13	0.899	-299.2126 263.1711
w1USpecGrav	-3826.963	4751.3	-0.81	0.423	-13275.54 5621.616
w1BUN	14.11226	8.900743	1.59	0.117	-3.587852 31.81236
w1ALP	-.8638956	1.325584	-0.65	0.516	-3.499939 1.772148
w1UricAcid	-6.834449	25.01121	-0.27	0.785	-56.57174 42.90284
ICV_volum2	.0011348	.000314	3.61	0.001	.0005104 .0017593
_cons	6411.671	4752.714	1.35	0.181	-3039.704 15863.05

317 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecG
 > 1 & Sex==1

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	99
		Average RVI	=	0.0073
		Largest FMI	=	0.0794
		Complete DF	=	86
DF adjustment:	Small sample	DF:	min	= 70.14
			avg	= 82.83
			max	= 84.06
Model F test:	Equal FMI	F(12, 84.0)	=	4.55
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-47.08966	77.66463	-0.61	0.546	-201.5415 107.3622
Sex	0	(omitted)			
w1Age	-5.047612	4.137475	-1.22	0.226	-13.27544 3.180215
Race	-129.6794	69.7316	-1.86	0.066	-268.3511 8.992266
PovStat	-31.58483	70.82478	-0.45	0.657	-172.4282 109.2586
TIME_V1SCAN	.0343091	.0509944	0.67	0.503	-.0670978 .135716
w1BMI	-1.603328	4.805646	-0.33	0.739	-11.15983 7.953169
w1Creatinine	1.632632	158.4098	0.01	0.992	-314.2945 317.5598
w1USpecGrav	-1807.289	5175.861	-0.35	0.728	-12100.77 8486.195
w1BUN	9.173764	9.695141	0.95	0.347	-10.10714 28.45467
w1ALP	-.4177177	1.442133	-0.29	0.773	-3.285568 2.450133
w1UricAcid	5.634144	27.20042	0.21	0.836	-48.45678 59.72507
ICV_volum2	.0018001	.0003415	5.27	0.000	.0011209 .0024792
_cons	3621.903	5178.027	0.70	0.486	-6675.911 13919.72

318 .

319 . //ANALYSIS C//

320 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==1

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	99
Average RVI	=	0.0108
Largest FMI	=	0.1189
Complete DF	=	86
DF adjustment: Small sample	DF:	min = 60.79
		avg = 82.14
		max = 84.06
Model F test: Equal FMI	F(12, 84.0)	= 1.23
Within VCE type: OLS	Prob > F	= 0.2797

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.048692	1.198903	0.87	0.384	-1.335668 3.433053
Sex	0	(omitted)			
w1Age	.1006817	.0637922	1.58	0.118	-.0261761 .2275395
Race	1.300575	1.074844	1.21	0.230	-.8368913 3.438041
PovStat	1.410633	1.091803	1.29	0.200	-.7605306 3.581797
TIME_V1SCAN	-.0007834	.0007871	-1.00	0.322	-.0023487 .0007819
w1BMI	.0867042	.0740983	1.17	0.245	-.0606476 .2340561
w1Creatinine	.1783144	2.491374	0.07	0.943	-4.803841 5.16047
w1USpecGrav	25.40953	79.63115	0.32	0.750	-132.9454 183.7645
w1BUN	.1835402	.1493768	1.23	0.223	-.1135207 .4806012
w1ALP	.0071376	.0222516	0.32	0.749	-.0371133 .0513885
w1UricAcid	-.335544	.4196968	-0.80	0.426	-1.170174 .499086
ICV_volM2	5.22e-06	5.27e-06	0.99	0.324	-5.25e-06 .0000157
_cons	-38.57193	79.65813	-0.48	0.629	-196.9804 119.8366

321 .

322 . save, replace
 file finaldata_imputed.dta saved

323 .

324 . **INTERACTION BY Sex**

325 .

326 .

327 . //ANALYSIS A//

328 . mi estimate: reg TOTALBRAIN c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecG

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0221
Largest FMI	=	0.2515
Complete DF	=	165
DF adjustment: Small sample	DF:	min = 47.25
		avg = 152.82
		max = 163.00
Model F test: Equal FMI	F(13, 162.6)	= 12.29
Within VCE type: OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	5742.314	21994.58	0.26	0.794	-37690.22 49174.85
Sex					
Men	181950.9	22616.19	8.05	0.000	137259.6 226642.1
Sex#c.NFLw1w3trackhigh					
Men	-30654.67	29493.12	-1.04	0.300	-88894.4 27585.06
Sex	0 (omitted)				
w1Age	-1543.066	894.5832	-1.72	0.086	-3309.537 223.4044
Race	-68823.33	14888.04	-4.62	0.000	-98224.52 -39422.13
PovStat	197.4348	15854.09	0.01	0.990	-31108.45 31503.32
TIME_V1SCAN	-21.02924	11.28019	-1.86	0.064	-43.30396 1.245485
w1BMI	2462.326	1203.344	2.05	0.042	86.12907 4838.522
w1Creatinine	-18997.53	39618.8	-0.48	0.634	-98689.3 60694.23
w1USpecGrav	-3080.243	1147342	-0.00	0.998	-2268678 2262518
w1BUN	34.24446	1984.244	0.02	0.986	-3885.132 3953.621
w1ALP	301.554	329.95	0.91	0.362	-349.9745 953.0826
w1UricAcid	-19832.08	5844.221	-3.39	0.001	-31372.43 -8291.735
_cons	1310692	1158182	1.13	0.259	-976310.9 3597695

329 . mi estimate: reg GM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0144
	Largest FMI	=	0.1788
	Complete DF	=	165
DF adjustment: Small sample	DF:	min	= 70.28
		avg	= 155.10
		max	= 163.03
Model F test: Equal FMI	F(13, 162.8)	=	13.63
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	5591.176	11860.1	0.47	0.638	-17829.04 29011.4
Sex					
Men	96730.26	12135.85	7.97	0.000	72754.92 120705.6
Sex#c.NFLw1w3trackhigh					
Men	-27073.1	15892.38	-1.70	0.090	-58455.39 4309.191
Sex	0 (omitted)				
w1Age	-1815.929	482.3091	-3.77	0.000	-2768.314 -863.5443
Race	-48764.29	8007.73	-6.09	0.000	-64577.28 -32951.31
PovStat	129.1377	8545.309	0.02	0.988	-16744.62 17002.89
TIME_V1SCAN	-8.021501	6.079253	-1.32	0.189	-20.02601 3.983007
w1BMI	1450.02	648.7218	2.24	0.027	169.0116 2731.028
w1Creatinine	-1071.069	20519.43	-0.05	0.959	-41992.93 39850.8
w1USpecGrav	-310541.8	618442.5	-0.50	0.616	-1531748 910664.7
w1BUN	473.7449	1065.467	0.44	0.657	-1630.513 2578.003
w1ALP	222.0505	177.8829	1.25	0.214	-129.2028 573.3038
w1UricAcid	-9626.595	3148.065	-3.06	0.003	-15842.88 -3410.313
_cons	1077704	624424.4	1.73	0.086	-155319.5 2310727

330 . mi estimate: reg WM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0359
	Largest FMI	=	0.3526
	Complete DF	=	165
DF adjustment:	Small sample	DF:	min = 29.19
			avg = 148.42
			max = 162.95
Model F test:	Equal FMI	F(13, 162.0)	= 8.37
Within VCE type:	OLS	Prob > F	= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	1534.33	10713.93	0.14	0.886	-19622.98	22691.64
Sex						
Men	77876.44	11160.95	6.98	0.000	55797.75	99955.13
Sex#c.NFLw1w3trackhigh						
Men	-12946.78	14367.83	-0.90	0.369	-41319.62	15426.06
Sex	0 (omitted)					
w1Age	-259.7597	436.3062	-0.60	0.552	-1121.345	601.8252
Race	-17873.21	7274.561	-2.46	0.015	-32241.19	-3505.235
PovStat	-3695.156	7713.507	-0.48	0.633	-18926.47	11536.16
TIME_V1SCAN	-11.28586	5.494418	-2.05	0.042	-22.13583	.4358898
w1BMI	993.461	588.2683	1.69	0.093	-168.3063	2155.228
w1Creatinine	-17229.16	20481.87	-0.84	0.407	-59107.47	24649.16
w1USpecGrav	93698.71	560405.8	0.17	0.867	-1013005	1200402
w1BUN	-192.5293	978.0481	-0.20	0.844	-2125.855	1740.796
w1ALP	114.6397	160.5668	0.71	0.476	-202.4217	431.7012
w1UricAcid	-9232.957	2844.815	-3.25	0.001	-14850.56	-3615.351
_cons	424447.2	565924.1	0.75	0.454	-693165.7	1542060

331 .

332 .

333 . //ANALYSIS B//

334 . mi estimate: reg Left_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1

> inal==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0428
	Largest FMI	=	0.3967
	Complete DF	=	164
DF adjustment:	Small sample	DF:	min = 24.17
			avg = 146.56
			max = 161.98
Model F test:	Equal FMI	F(13, 160.7)	= 11.16
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-73.30653	73.68117	-0.99	0.321	-218.8383 72.22525
Sex Men	35.29942	91.52669	0.39	0.700	-145.737 216.3359
Sex#c.NFLw1w3trackhigh Men	-123.0993	98.6966	-1.25	0.214	-318.027 71.8284
Sex w1Age	0 (omitted)				
w1Age	-4.644006	2.982496	-1.56	0.121	-10.53375 1.245736
Race	-88.43697	54.0352	-1.64	0.104	-195.1579 18.28398
PovStat	-132.0754	52.78641	-2.50	0.013	-236.3144 -27.83648
TIME_V1SCAN	.0134263	.037849	0.35	0.723	-.0613204 .088173
w1BMI	2.494605	4.045473	0.62	0.538	-5.494302 10.48351
w1Creatinine	-4.207099	144.3934	-0.03	0.977	-302.1087 293.6945
w1USpecGrav	-2489.98	3891.371	-0.64	0.523	-10180.06 5200.101
w1BUN	6.522329	6.697819	0.97	0.332	-6.717437 19.7621
w1ALP	-.4362354	1.101424	-0.40	0.693	-2.611301 1.73883
w1UricAcid	-12.8721	19.90435	-0.65	0.519	-52.17862 26.43441
ICV_volM2	.0016392	.0002265	7.24	0.000	.001192 .0020865
_cons	4349.398	3934.861	1.11	0.271	-3426.916 12125.71

335 . mi estimate: reg Right_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP w1UricAcid ICV_volM2 _cons
> final==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0136
	Largest FMI	=	0.1410
	Complete DF	=	164
DF adjustment: Small sample	DF:	min	= 87.19
		avg	= 154.79
		max	= 161.95
Model F test: Equal FMI	F(13, 161.8)	=	13.65
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-70.2148	75.27407	-0.93	0.352	-218.8672 78.4376
Sex Men	-30.37471	91.92973	-0.33	0.742	-211.9505 151.2011
Sex#c.NFLw1w3trackhigh Men	-138.3772	100.9419	-1.37	0.172	-337.715 60.96059
Sex w1Age	0 (omitted)				
w1Age	-2.915945	3.061529	-0.95	0.342	-8.961632 3.129743
Race	-82.47935	55.25781	-1.49	0.137	-191.6012 26.64246
PovStat	-105.5489	54.23113	-1.95	0.053	-212.6402 1.542455
TIME_V1SCAN	.0439133	.0388395	1.13	0.260	-.032787 .1206136
w1BMI	2.893305	4.151688	0.70	0.487	-5.305145 11.09175
w1Creatinine	37.66087	127.7527	0.29	0.769	-216.2538 291.5755
w1USpecGrav	-188.5489	3984.232	-0.05	0.962	-8060.477 7683.38
w1BUN	9.990517	6.763909	1.48	0.142	-3.368132 23.34917
w1ALP	.2740377	1.131587	0.24	0.809	-1.960579 2.508654
w1UricAcid	-24.66084	20.43572	-1.21	0.229	-65.01598 15.69431
ICV_volM2	.0020495	.0002328	8.81	0.000	.0015899 .0025092
_cons	1504.115	4026.034	0.37	0.709	-6450.376 9458.606

336 .

337 . //ANALYSIS C//

338 . mi estimate: reg LnLesion_Volume c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1U
> inal==1

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0023
Largest FMI	=	0.0278
Complete DF	=	164
DF adjustment: Small sample	DF: min	= 153.28
	avg	= 161.28
	max	= 162.02
Model F test: Equal FMI	F(13, 162.0)	= 1.16
Within VCE type: OLS	Prob > F	= 0.3124

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	1.49179	.9674429	1.54	0.125	- .4186491	3.402229
Sex						
Men	.2928027	1.175728	0.25	0.804	-2.028988	2.614593
Sex#c.NFLw1w3trackhigh						
Men	-.6176934	1.298318	-0.48	0.635	-3.181514	1.946128
Sex	0 (omitted)					
w1Age	.0449855	.0394327	1.14	0.256	- .0328833	.1228543
Race	1.252075	.7106487	1.76	0.080	- .151258	2.655407
PovStat	.8529507	.6984118	1.22	0.224	- .5262129	2.232114
TIME_V1SCAN	-.0005846	.0004993	-1.17	0.243	- .0015706	.0004014
w1BMI	.0231784	.0534646	0.43	0.665	- .0823991	.128756
w1Creatinine	.3169181	1.554238	0.20	0.839	-2.753574	3.38741
w1USpecGrav	31.28316	50.55748	0.62	0.537	-68.5546	131.1209
w1BUN	.0778011	.0866715	0.90	0.371	- .0933528	.2489551
w1ALP	-.0084579	.0145584	-0.58	0.562	- .0372067	.0202909
w1UricAcid	-.000747	.2630755	-0.00	0.998	- .5202465	.5187525
ICV_volM2	2.72e-06	3.00e-06	0.91	0.365	-3.20e-06	8.64e-06
_cons	-35.72474	51.09481	-0.70	0.485	-136.6237	65.17423

339 .

340 . save, replace
file finaldata_imputed.dta saved

341 .

342 . *****MODEL 5: MODEL 2+oxidative stress*****

343 .

344 . //Overall//

345 .

346 . use finaldata_imputed,clear

347 .

348 .

349 . //ANALYSIS A//

350 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinP

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0115
Largest FMI	= 0.0975
Complete DF	= 168
DF adjustment: Small sample	DF: min = 113.94
	avg = 159.87
	max = 165.97
Model F test: Equal FMI	F(10, 165.8) = 14.05
Within VCE type: OLS	Prob > F = 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-5682.232	16690.25	-0.34	0.734	-38635.3 27270.84
Sex	139427.5	14178.97	9.83	0.000	111432 167423
w1Age	-2252.295	858.0073	-2.63	0.009	-3946.328 -558.2628
Race	-64971.45	16475.91	-3.94	0.000	-97514.96 -32427.95
PovStat	-2137.368	16107.66	-0.13	0.895	-33940.04 29665.3
TIME_V1SCAN	-20.03249	11.77424	-1.70	0.091	-43.27962 3.214633
w1BMI	625.5648	1144.066	0.55	0.585	-1633.248 2884.378
w1TotalD	809.9066	811.7426	1.00	0.321	-798.1583 2417.972
w1Albumin	-5711.907	27440.37	-0.21	0.835	-59889.08 48465.27
w1EosinPct	-2338.901	3519.36	-0.66	0.507	-9288.285 4610.484
_cons	1179817	150475.9	7.84	0.000	882715.5 1476918

351 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0065
Largest FMI	= 0.0581
Complete DF	= 168
DF adjustment: Small sample	DF: min = 139.63
	avg = 162.96
	max = 166.00
Model F test: Equal FMI	F(10, 166.0) = 15.87
Within VCE type: OLS	Prob > F = 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-4661.564	8964.345	-0.52	0.604	-22360.57 13037.44
Sex	71070.09	7609.188	9.34	0.000	56046.57 86093.61
w1Age	-1986.031	460.7546	-4.31	0.000	-2895.727 -1076.335
Race	-46990.53	8799.058	-5.34	0.000	-64366.28 -29614.77
PovStat	-2898.005	8650.793	-0.33	0.738	-19977.85 14181.84
TIME_V1SCAN	-7.312838	6.322076	-1.16	0.249	-19.79502 5.169348
w1BMI	598.0375	614.5338	0.97	0.332	-615.2762 1811.351
w1TotalD	265.5092	427.6251	0.62	0.536	-579.9479 1110.966
w1Albumin	3116.926	14742.73	0.21	0.833	-25990.5 32224.35
w1EosinPct	516.3692	1886.29	0.27	0.785	-3208.086 4240.824
_cons	682369.8	80791.66	8.45	0.000	522855.9 841883.7

352 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0131	
Largest FMI	=	0.1011	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	111.66
		avg	159.19
		max	165.93
Model F test: Equal FMI	F(10, 165.8)	=	9.55
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-3996.23	8094.1	-0.49	0.622	-19977.35 11984.89
Sex	57048.82	6881.191	8.29	0.000	43461.91 70635.72
w1Age	-648.8616	416.1168	-1.56	0.121	-1470.445 172.7216
Race	-14985.23	8004.795	-1.87	0.063	-30798.46 827.9948
PovStat	-4078.751	7809.055	-0.52	0.602	-19496.91 11339.4
TIME_V1SCAN	-10.6596	5.70782	-1.87	0.064	-21.92921 .610012
w1BMI	119.1851	554.6674	0.21	0.830	-975.9429 1214.313
w1TotalD	535.682	394.1093	1.36	0.177	-245.2208 1316.585
w1Albumin	-1068.095	13300.15	-0.08	0.936	-27327.44 25191.25
w1EosinPct	-2031.353	1707.649	-1.19	0.236	-5403.43 1340.724
_cons	449536.1	72940.28	6.16	0.000	305521.3 593550.9

353 .

354 . //ANALYSIS B//

355 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0297	
Largest FMI	=	0.2510	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	47.60
		avg	152.50
		max	164.93
Model F test: Equal FMI	F(11, 164.3)	=	13.52
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-130.6393	54.22719	-2.41	0.017	-237.7384 -23.54025
Sex	-40.86018	60.64207	-0.67	0.501	-160.5951 78.87475
w1Age	-3.842996	2.76192	-1.39	0.166	-9.296274 1.610283
Race	-86.89105	56.75287	-1.53	0.128	-199.0389 25.2568
PovStat	-146.4238	51.84235	-2.82	0.005	-248.785 -44.06255
TIME_V1SCAN	.0242054	.0381521	0.63	0.527	-.0511282 .0995391
w1BMI	2.449193	3.685092	0.66	0.507	-4.826911 9.725297
w1TotalD	.8243842	2.841138	0.29	0.773	-4.889344 6.538113
w1Albumin	123.3548	88.46961	1.39	0.165	-51.32679 298.0364
w1EosinPct	.2208584	11.38629	0.02	0.985	-22.26777 22.70948
ICV_volum2	.0016458	.0002185	7.53	0.000	.0012144 .0020772
_cons	1263.367	562.352	2.25	0.026	153.0008 2373.734

356 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct ICV_volum2 _cons

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0128
	Largest FMI	=	0.1014
	Complete DF	=	167
DF adjustment:	Small sample	DF:	
		min	= 110.98
		avg	= 159.04
		max	= 164.99
Model F test:	Equal FMI	F(11, 164.9)	= 15.60
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-120.5348	55.81394	-2.16	0.032	-230.7391 -10.33058
Sex	-114.4958	62.96364	-1.82	0.071	-238.8143 9.822725
w1Age	-1.923749	2.868448	-0.67	0.503	-7.587375 3.739876
Race	-106.1895	58.26063	-1.82	0.070	-221.2503 8.871208
PovStat	-122.9185	53.82335	-2.28	0.024	-229.1908 -16.64625
TIME_V1SCAN	.0496612	.0395358	1.26	0.211	-.0284013 .1277238
w1BMI	1.890331	3.824961	0.49	0.622	-5.661887 9.442549
w1TotalD	-1.438705	2.724046	-0.53	0.598	-6.836597 3.959187
w1Albumin	73.32297	91.77019	0.80	0.425	-107.8724 254.5183
w1EosinPct	4.966726	11.87152	0.42	0.676	-18.4846 28.41806
ICV_volum2	.0020875	.0002269	9.20	0.000	.0016395 .0025354
_cons	1191.128	583.3079	2.04	0.043	39.40644 2342.849

357 .

358 . //ANALYSIS C//

359 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct ICV_volum2 _cons

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0072
	Largest FMI	=	0.0758
	Complete DF	=	167
DF adjustment:	Small sample	DF:	
		min	= 127.45
		avg	= 161.48
		max	= 165.02
Model F test:	Equal FMI	F(11, 165.0)	= 1.23
Within VCE type:	OLS	Prob > F	= 0.2732

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.160208	.7129007	1.63	0.106	-.2474187 2.567835
Sex	.266974	.8038167	0.33	0.740	-1.320117 1.854065
w1Age	.0538582	.0366107	1.47	0.143	-.0184276 .126144
Race	1.219743	.7418944	1.64	0.102	-.2453115 2.684797
PovStat	.8153756	.6868992	1.19	0.237	-.5408715 2.171623
TIME_V1SCAN	-.0004739	.0005046	-0.94	0.349	-.0014701 .0005223
w1BMI	.0471428	.0488401	0.97	0.336	-.0492898 .1435754
w1TotalD	.0038077	.0343381	0.11	0.912	-.0641389 .0717543
w1Albumin	.7800574	1.171945	0.67	0.507	-1.53389 3.094005
w1EosinPct	.1078075	.1493735	0.72	0.471	-.187124 .4027391
ICV_volum2	2.41e-06	2.90e-06	0.83	0.407	-3.31e-06 8.12e-06
_cons	-7.963129	7.446749	-1.07	0.286	-22.66643 6.740176

```

360 .
361 . save, replace
    file finaldata_imputed.dta saved

362 .
363 .
364 . //Males//
365 .
366 .
367 . use finaldata_imputed,clear

368 .
369 .
370 . //ANALYSIS A//
371 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if s

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0157	
Largest FMI	=	0.0657	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 60.23
		avg	= 66.30
		max	= 68.01
Model F test: Equal FMI	F(9, 68.0)	=	2.68
Within VCE type: OLS	Prob > F	=	0.0099

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-13849.85	28088.46	-0.49	0.624	-69950.26 42250.57
Sex	0	(omitted)			
w1Age	-2362.916	1702.885	-1.39	0.170	-5761.233 1035.401
Race	-70995.61	30169.39	-2.35	0.022	-131222.6 -10768.64
PovStat	19972.84	29206.83	0.68	0.496	-38339.75 78285.43
TIME_V1SCAN	-37.17444	20.33741	-1.83	0.072	-77.75705 3.408167
w1BMI	1326.837	2674.887	0.50	0.621	-4011.635 6665.309
w1TotalD	2125.26	1563.975	1.36	0.179	-1002.908 5253.428
w1Albumin	2573.984	55109	0.05	0.963	-107413.1 112561.1
w1EosinPct	-972.2437	6913.193	-0.14	0.889	-14768.35 12823.86
_cons	1391073	330818	4.20	0.000	730806 2051340

```

372 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if s

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0123	
Largest FMI	=	0.0712	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 59.35
		avg	= 66.60
		max	= 68.04
Model F test: Equal FMI	F(9, 68.0)	=	4.40
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-13049.83	14504.79	-0.90	0.372	-42004.58 15904.91
Sex	0	(omitted)			
w1Age	-2349.115	885.5363	-2.65	0.010	-4116.245 -581.9848
Race	-54683.35	15692.94	-3.48	0.001	-86009.95 -23356.75
PovStat	6290.762	15155.36	0.42	0.679	-23961.92 36543.45
TIME_V1SCAN	-13.71567	10.58319	-1.30	0.199	-34.83388 7.402544
w1BMI	1137.792	1390.362	0.82	0.416	-1636.887 3912.472
w1TotalD	807.2169	816.2638	0.99	0.327	-825.923 2440.357
w1Albumin	18750.81	28621.14	0.66	0.515	-38365.91 75867.52
w1EosinPct	-350.3299	3595.088	-0.10	0.923	-7524.495 6823.835
_cons	763157.9	171893.5	4.44	0.000	420109.8 1106206

373 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if s

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0191	
Largest FMI	=	0.0611	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 60.96
		avg	= 65.99
		max	= 67.91
Model F test: Equal FMI	F(9, 67.9)	=	1.78
Within VCE type: OLS	Prob > F	=	0.0874

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-9568.427	13746.29	-0.70	0.489	-37056.18 17919.32
Sex	0	(omitted)			
w1Age	-435.9033	823.2073	-0.53	0.598	-2078.767 1206.961
Race	-14961.46	14585.79	-1.03	0.309	-44080.38 14157.45
PovStat	4622.049	14116.81	0.33	0.744	-23563.64 32807.74
TIME_V1SCAN	-20.95897	9.830679	-2.13	0.037	-40.57625 -1.341693
w1BMI	26.59513	1294.127	0.02	0.984	-2556.38 2609.57
w1TotalD	1324.889	748.7825	1.77	0.082	-171.4515 2821.23
w1Albumin	-10669.96	26720.69	-0.40	0.691	-64009.85 42669.93
w1EosinPct	-506.9288	3342.871	-0.15	0.880	-7178.32 6164.462
_cons	587103	160146.9	3.67	0.000	267437.1 906768.9

374 .

375 .

376 . //ANALYSIS B//

377 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0223	
Largest FMI	=	0.1370	
Complete DF	=	69	
DF adjustment: Small sample	DF:	min	= 47.50
		avg	= 64.24
		max	= 66.95
Model F test: Equal FMI	F(10, 66.9)	=	7.71
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-207.8808	85.62132	-2.43	0.018	-379.0851 -36.67656
Sex	0	(omitted)			
w1Age	-4.755744	5.130867	-0.93	0.357	-14.99719 5.485706
Race	13.78237	96.65514	0.14	0.887	-179.2521 206.8168
PovStat	-258.2641	87.59173	-2.95	0.004	-433.112 -83.41608
TIME_V1SCAN	.0126161	.0624683	0.20	0.841	-.1120731 .1373052
w1BMI	5.13467	8.076352	0.64	0.527	-10.98769 21.25703
w1TotalD	5.806809	4.91933	1.18	0.244	-4.086858 15.70048
w1Albumin	-8.910988	166.8277	-0.05	0.958	-342.0046 324.1826
w1EosinPct	-17.23558	20.85081	-0.83	0.411	-58.85475 24.38359
ICV_volum2	.0020738	.000326	6.36	0.000	.001423 .0027246
_cons	1103.872	1106.905	1.00	0.322	-1105.945 3313.689

378 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0112
Largest FMI	=	0.1027
Complete DF	=	69
DF adjustment:	Small sample	
DF:	min	= 53.30
	avg	= 65.57
	max	= 67.08
Model F test:	Equal FMI	F(10, 67.0) = 8.44
Within VCE type:	OLS	Prob > F = 0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-191.2812	86.01297	-2.22	0.030	-362.9897 -19.5727
Sex	0	(omitted)			
w1Age	-6.119621	5.262997	-1.16	0.249	-16.62438 4.385135
Race	-46.65653	98.93939	-0.47	0.639	-244.2164 150.9033
PovStat	-236.8206	89.7732	-2.64	0.010	-416.0096 -57.63168
TIME_V1SCAN	.043877	.0641074	0.68	0.496	-.0840808 .1718348
w1BMI	7.387478	8.276242	0.89	0.375	-9.132487 23.98744
w1TotalD	1.199916	4.964947	0.24	0.810	-8.757189 11.15702
w1Albumin	-133.5227	170.2598	-0.78	0.436	-473.3695 206.324
w1EosinPct	-20.53954	21.39094	-0.96	0.340	-63.23534 22.15626
ICV_volum2	.0024138	.0003343	7.22	0.000	.0017466 .003081
_cons	1563.686	1131.899	1.38	0.172	-695.6168 3822.988

379 .

380 . //ANALYSIS C//

381 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0142
Largest FMI	=	0.1078
Complete DF	=	69
DF adjustment:	Small sample	
DF:	min	= 52.43
	avg	= 65.20
	max	= 67.07
Model F test:	Equal FMI	F(10, 67.0) = 0.66
Within VCE type:	OLS	Prob > F = 0.7595

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.181277	.8165369	1.45	0.153	-.4485581 2.811111
Sex	0	(omitted)			
w1Age	-.0277852	.0501561	-0.55	0.581	-.127898 .0723277
Race	1.638453	.9509011	1.72	0.090	-.2615194 3.538426
PovStat	.3164973	.8579408	0.37	0.713	-1.396236 2.02923
TIME_V1SCAN	-.0004869	.0006109	-0.80	0.428	-.0017063 .0007325
w1BMI	-.0182613	.0790051	-0.23	0.818	-.1759782 .1394555
w1TotalD	.0352442	.0474009	0.74	0.460	-.0598539 .1303423
w1Albumin	.0196889	1.619732	0.01	0.990	-3.213249 3.252627
w1EosinPct	.0033515	.2039216	0.02	0.987	-.4036887 .4103916
ICV_volum2	1.09e-07	3.18e-06	0.03	0.973	-6.24e-06 6.46e-06
_cons	4.648688	10.79988	0.43	0.668	-16.90996 26.20733

```

382 .
383 . save, replace
      file finaldata_imputed.dta saved

384 .
385 .
386 .
387 . //Females// 
388 .
389 . use finaldata_imputed,clear

390 .
391 .
392 . //ANALYSIS A// 
393 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI  w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
Linear regression
      Imputations      =      5
      Number of obs     =     99
      Average RVI       =    0.0218
      Largest FMI        =    0.1746
      Complete DF        =     89
DF adjustment: Small sample
      DF:      min      =    49.66
              avg      =    82.21
              max      =    87.04
Model F test: Equal FMI
      F(    9,    86.8)  =     2.31
Within VCE type: OLS
      Prob > F          =    0.0221

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-1247.296	21024.05	-0.06	0.953	-43040.24 40545.64
Sex	0	(omitted)			
w1Age	-2064.933	998.3259	-2.07	0.042	-4049.224 -80.64227
Race	-57928.5	18978.16	-3.05	0.003	-95686.69 -20170.31
PovStat	-21802.16	19461.99	-1.12	0.266	-60485.06 16880.73
TIME_V1SCAN	-3.976171	14.1848	-0.28	0.780	-32.17191 24.21957
w1BMI	759.1336	1165.034	0.65	0.516	-1556.498 3074.765
w1TotalD	66.7994	921.8619	0.07	0.943	-1785.127 1918.726
w1Albumin	-17397.59	29879.93	-0.58	0.562	-76786.84 41991.65
w1EosinPct	-2303.508	4050.113	-0.57	0.571	-10357.72 5750.708
_cons	1355905	157095.8	8.63	0.000	1043630 1668180

394 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if s

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0170
	Largest FMI	=	0.1460
	Complete DF	=	89
DF adjustment: Small sample	DF:	min	= 56.01
		avg	= 83.22
		max	= 87.05
Model F test: Equal FMI	F(9, 86.9)	=	3.77
Within VCE type: OLS	Prob > F	=	0.0005

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1868.79	11639.98	0.16	0.873	-21269.15 25006.73
Sex	0	(omitted)			
w1Age	-1737.154	553.427	-3.14	0.002	-2837.169 -637.1398
Race	-40753.51	10472.19	-3.89	0.000	-61582.48 -19924.54
PovStat	-10156.24	10781.92	-0.94	0.349	-31586.36 11273.87
TIME_V1SCAN	-.5339856	7.857507	-0.07	0.946	-16.1525 15.08453
w1BMI	712.9159	645.5448	1.10	0.272	-570.1716 1996.003
w1TotalD	-85.14314	503.2354	-0.17	0.866	-1093.241 922.9544
w1Albumin	-13127.9	16556.9	-0.79	0.430	-46036.3 19780.49
w1EosinPct	1001.69	2231.855	0.45	0.655	-3435.401 5438.782
_cons	799512.3	86967.99	9.19	0.000	626643.1 972381.5

395 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if s

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0193
	Largest FMI	=	0.1480
	Complete DF	=	89
DF adjustment: Small sample	DF:	min	= 55.55
		avg	= 82.88
		max	= 87.04
Model F test: Equal FMI	F(9, 86.9)	=	1.23
Within VCE type: OLS	Prob > F	=	0.2848

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	649.0651	10187.21	0.06	0.949	-19601.21 20899.34
Sex	0	(omitted)			
w1Age	-749.079	484.026	-1.55	0.125	-1711.135 212.9773
Race	-14168.2	9174.405	-1.54	0.126	-32417.35 4080.942
PovStat	-12342.07	9438.719	-1.31	0.194	-31102.7 6418.564
TIME_V1SCAN	-1.917872	6.873859	-0.28	0.781	-15.58107 11.74533
w1BMI	282.7646	564.8509	0.50	0.618	-839.935 1405.464
w1TotalD	100.599	440.8593	0.23	0.820	-782.7072 983.9051
w1Albumin	2614.019	14487.89	0.18	0.857	-26182.04 31410.08
w1EosinPct	-2495.737	1968.036	-1.27	0.208	-6409.954 1418.481
_cons	492373.9	76131.29	6.47	0.000	341042.8 643705

396 .

397 . //ANALYSIS B//

398 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0259	
Largest FMI	=	0.1767	
Complete DF	=	88	
DF adjustment: Small sample	DF:	min	= 48.83
		avg	= 81.43
		max	= 85.98
Model F test:	Equal FMI	F(10, 85.8)	= 4.23
Within VCE type:	OLS	Prob > F	= 0.0001

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-21.02848	70.01606	-0.30	0.765	-160.2271 118.1701
Sex	0	(omitted)			
w1Age	-6.358655	3.332575	-1.91	0.060	-12.98374 .2664333
Race	-175.7799	66.7713	-2.63	0.010	-308.6091 -42.95065
PovStat	-77.718	65.48586	-1.19	0.239	-207.9182 52.48225
TIME_V1SCAN	.0332879	.0472825	0.70	0.483	-.0607132 .127289
w1BMI	2.398598	3.886905	0.62	0.539	-5.328344 10.12554
w1TotalD	-1.968072	3.079036	-0.64	0.526	-8.156159 4.220015
w1Albumin	155.5947	100.345	1.55	0.125	-43.88514 355.0745
w1EosinPct	-.2547949	13.65246	-0.02	0.985	-27.42921 26.91962
ICV_volum2	.0011395	.0002984	3.82	0.000	.0005464 .0017327
_cons	1879.387	703.4912	2.67	0.009	480.8704 3277.903

399 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0134	
Largest FMI	=	0.0645	
Complete DF	=	88	
DF adjustment: Small sample	DF:	min	= 75.15
		avg	= 83.83
		max	= 86.03
Model F test:	Equal FMI	F(10, 86.0)	= 5.87
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-27.25062	74.99312	-0.36	0.717	-176.333 121.8318
Sex	0	(omitted)			
w1Age	-3.530189	3.581574	-0.99	0.327	-10.65054 3.590165
Race	-169.2208	71.09723	-2.38	0.020	-310.5919 -27.84964
PovStat	-51.48071	70.27307	-0.73	0.466	-191.1968 88.23541
TIME_V1SCAN	.0524156	.0507601	1.03	0.305	-.0484992 .1533305
w1BMI	1.0607	4.174252	0.25	0.800	-7.237567 9.358968
w1TotalD	-2.760341	3.11452	-0.89	0.378	-8.96316 3.442478
w1Albumin	154.9709	107.6951	1.44	0.154	-59.11881 369.0607
w1EosinPct	7.767955	14.78501	0.53	0.601	-21.68434 37.22025
ICV_volum2	.0018032	.0003203	5.63	0.000	.0011664 .00244
_cons	1160.596	755.0324	1.54	0.128	-340.3721 2661.564

```

400 .
401 . //ANALYSIS C//
402 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     99
Average RVI     =   0.0030
Largest FMI     =   0.0246
Complete DF      =      88
DF adjustment:  Small sample
DF:      min      =   83.10
          avg      =   85.69
          max      =   86.06
Model F test:    Equal FMI      F(  10,   86.1)      =   1.26
Within VCE type: OLS           Prob > F      =  0.2668

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.202799	1.184611	1.02	0.313	-1.152157 3.557754
Sex	0	(omitted)			
w1Age	.1246197	.056465	2.21	0.030	.0123709 .2368685
Race	.7675386	1.117623	0.69	0.494	-1.454348 2.989425
PovStat	1.279522	1.106377	1.16	0.251	-.9199209 3.478965
TIME_V1SCAN	-.0005669	.0008002	-0.71	0.481	-.0021576 .0010238
w1BMI	.0860465	.0658744	1.31	0.195	-.0449063 .2169993
w1TotalD	-.0251104	.0483481	-0.52	0.605	-.1212712 .0710504
w1Albumin	.7523657	1.700678	0.44	0.659	-2.628439 4.133171
w1EosinPct	.0493399	.2263961	0.22	0.828	-.4007233 .499403
ICV_volum2	6.19e-06	5.06e-06	1.22	0.225	-3.87e-06 .0000162
_cons	-15.91688	11.92169	-1.34	0.185	-39.61645 7.782687

```

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

405 .
406 .
407 . *****INTERACTION BY Sex*****
408 .
409 .
410 . //ANALYSIS A//
411 . mi estimate: reg TOTALBRAIN c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     179
Average RVI     =   0.0107
Largest FMI     =   0.0968
Complete DF      =      167
DF adjustment:  Small sample
DF:      min      =   113.89
          avg      =   159.36
          max      =   164.97
Model F test:    Equal FMI      F(  11,   164.9)      =   12.72
Within VCE type: OLS           Prob > F      =  0.0000

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-3017.372	22648.31	-0.13	0.894	-47735.87	41701.13
Sex						
Men	141503.7	18557.46	7.63	0.000	104861	178146.5
Sex#c.NFLw1w3trackhigh						
Men	-5156.813	29524.23	-0.17	0.862	-63452.29	53138.67
Sex	θ (omitted)					
w1Age	-2272.907	868.527	-2.62	0.010	-3987.787	-558.0275
Race	-65355.29	16684.12	-3.92	0.000	-98311.64	-32398.94
PovStat	-1766.198	16288.27	-0.11	0.914	-33926.8	30394.4
TIME_V1SCAN	-19.92928	11.82257	-1.69	0.094	-43.27287	3.4143
w1BMI	653.3208	1157.892	0.56	0.573	-1632.884	2939.526
w1TotalD	801.3479	816.2071	0.98	0.328	-815.5694	2418.265
w1Albumin	-5938.906	27549.72	-0.22	0.830	-60334.4	48456.59
w1EosinPct	-2423.255	3564.821	-0.68	0.498	-9462.869	4616.359
_cons	1319643	152222.1	8.67	0.000	1019079	1620207

412 . mi estimate: reg GM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0059
 Largest FMI = 0.0568
 Complete DF = 167
 DF adjustment: Small sample
 DF: min = 139.74
 avg = 162.31
 max = 165.00
 Model F test: Equal FMI = 14.51
 Within VCE type: OLS Prob > F = 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	3165.392	12132.44	0.26	0.794	-20789.64	27120.42
Sex						
Men	77167.44	9926.931	7.77	0.000	57566.87	96768.01
Sex#c.NFLw1w3trackhigh						
Men	-15135.94	15804.17	-0.96	0.340	-46340.61	16068.73
Sex	θ (omitted)					
w1Age	-2046.401	465.1379	-4.40	0.000	-2964.792	-1128.01
Race	-48145.93	8881.438	-5.42	0.000	-65684.84	-30607.03
PovStat	-1814.686	8725.397	-0.21	0.836	-19042.56	15413.19
TIME_V1SCAN	-7.013359	6.331158	-1.11	0.270	-19.51403	5.48731
w1BMI	679.0101	620.36	1.09	0.275	-545.8579	1903.878
w1TotalD	237.6449	428.7095	0.55	0.580	-609.9504	1085.24
w1Albumin	2458.192	14762.25	0.17	0.868	-26689.07	31605.46
w1EosinPct	270.0317	1905.689	0.14	0.887	-3492.962	4033.025
_cons	754695.1	81494.55	9.26	0.000	593786	915604.1

413 . mi estimate: reg WM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPc

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0124
	Largest FMI	=	0.1009
	Complete DF	=	167
DF adjustment:	Small sample	DF:	
		min	= 111.27
		avg	= 158.59
		max	= 164.92
Model F test:	Equal FMI	F(11, 164.8)	= 8.64
Within VCE type:	OLS	Prob > F	= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-4044.575	10982.16	-0.37	0.713	-25728.74	17639.59
Sex						
Men	57011.5	9011.532	6.33	0.000	39216.89	74806.12
Sex#c.NFLw1w3trackhigh						
Men	90.60728	14329.27	0.01	0.995	-28203.28	28384.49
Sex	0	(omitted)				
w1Age	-648.5269	421.289	-1.54	0.126	-1480.361	183.3072
Race	-14970.86	8110.406	-1.85	0.067	-30993.9	1052.178
PovStat	-4083.719	7896.584	-0.52	0.606	-19675.3	11507.87
TIME_V1SCAN	-10.6605	5.731917	-1.86	0.065	-21.97819	.657202
w1BMI	118.8329	561.3431	0.21	0.833	-989.518	1227.184
w1TotalD	536.5563	396.4245	1.35	0.179	-248.9644	1322.077
w1Albumin	-1066.174	13354.35	-0.08	0.936	-27433.71	25301.36
w1EosinPct	-2030.137	1730.204	-1.17	0.242	-5447.006	1386.732
_cons	506555.1	73806.09	6.86	0.000	360823	652287.3

414 .

415 .

416 . //ANALYSIS B//

417 . mi estimate: reg Left_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Alb

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0286
	Largest FMI	=	0.2604
	Complete DF	=	166
DF adjustment:	Small sample	DF:	
		min	= 45.25
		avg	= 152.37
		max	= 163.92
Model F test:	Equal FMI	F(12, 163.4)	= 12.54
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-73.42036	73.09592	-1.00	0.317	-217.7764	70.93569
Sex						
Men	2.90835	71.20112	0.04	0.967	-137.6815	143.4982
Sex#c.NFLw1w3trackhigh						
Men	-110.5951	94.54607	-1.17	0.244	-297.2811	76.09093
Sex	0	(omitted)				
w1Age	-4.281785	2.7843	-1.54	0.126	-9.7795	1.215931

Race	-94.97771	57.19223	-1.66	0.099	-208.0065	18.05106
PovStat	-138.4939	52.22488	-2.65	0.009	-241.615	-35.37284
TIME_V1SCAN	.026468	.0381593	0.69	0.489	-.0488834	.1018193
w1BMI	3.037907	3.714429	0.82	0.415	-4.296425	10.37224
w1TotalD	.6162574	2.861857	0.22	0.830	-5.146922	6.379437
w1Albumin	118.6171	88.46164	1.34	0.182	-56.05651	293.2908
w1EosinPct	-1.572424	11.49413	-0.14	0.891	-24.27636	21.13152
ICV_volM2	.0016501	.0002183	7.56	0.000	.0012191	.0020812
_cons	1225.316	586.3123	2.09	0.038	67.59285	2383.04

418 . mi estimate: reg Right_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albu

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0119
 Largest FMI = 0.0985
 Complete DF = 166
 DF adjustment: Small sample
 DF: min = 112.28
 avg = 158.58
 max = 164.00
 Model F test: Equal FMI
 Within VCE type: OLS
 F(12, 163.9) = 14.54
 Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-52.16386	75.3383	-0.69	0.490	-200.9249 96.5972
Sex Men	-62.2024	73.82158	-0.84	0.401	-207.966 83.56119
Sex#c.NFLw1w3trackhigh Men	-132.1412	98.01436	-1.35	0.179	-325.6745 61.3921
Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct ICV_volM2 _cons	0 (omitted) -2.447992 2.888144 -115.867 58.56584 -113.4459 54.15446 .0523634 .0394871 2.593353 3.850776 -1.688867 2.721648 67.66783 91.64025 2.823582 11.97179 .0020926 .0002263 1080.03 607.4106	-0.85 0.398 -1.98 0.050 -2.09 0.038 1.33 0.187 0.67 0.502 -0.62 0.536 0.74 0.461 0.24 0.814 9.25 0.000 1.78 0.077	-8.150777 3.254793 -231.5353 -.1987265 -220.377 -6.514933 -.0256064 .1303332 -5.010166 10.19687 -7.081315 3.703582 -113.279 248.6147 -20.82895 26.47611 .0016457 .0025395 -119.3331 2279.392		

419 .

420 . //ANALYSIS C//
 421 . mi estimate: reg LnLesion_Volume c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albu

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0060
 Largest FMI = 0.0687
 Complete DF = 166
 DF adjustment: Small sample
 DF: min = 131.41
 avg = 161.18
 max = 164.02
 Model F test: Equal FMI
 Within VCE type: OLS
 F(12, 164.0) = 1.15
 Prob > F = 0.3275

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	1.512795	.9667719	1.56	0.120	-.3961833	3.421773
Sex						
Men	.5366855	.9467212	0.57	0.572	-1.332647	2.406018
Sex#c.NFLw1w3trackhigh						
Men	-.6815245	1.257213	-0.54	0.588	-3.163942	1.800893
Sex	0 (omitted)					
w1Age	.0511538	.0370257	1.38	0.169	-.0219547	.1242622
Race	1.170048	.7488214	1.56	0.120	-.3087249	2.64882
PovStat	.8642659	.6941761	1.25	0.215	-.5064091	2.234941
TIME_V1SCAN	-.0004599	.0005062	-0.91	0.365	-.0014595	.0005397
w1BMI	.0507734	.0493911	1.03	0.305	-.0467512	.1482981
w1TotalD	.0025369	.0343924	0.07	0.941	-.0654974	.0705712
w1Albumin	.7508367	1.175609	0.64	0.524	-1.570448	3.072121
w1EosinPct	.0967592	.1510971	0.64	0.523	-.2015896	.395108
ICV_volM2	2.43e-06	2.90e-06	0.84	0.403	-3.30e-06	8.16e-06
_cons	-7.679194	7.789876	-0.99	0.326	-23.06065	7.702264

```

422 .
423 . save, replace
      file finaldata_imputed.dta saved

424 .
425 . *****MODEL 6: MODEL 2+lifestyle/health-related factors*****
426 .
427 .
428 . //Overall//
429 .
430 . use finaldata_imputed,clear

431 .
432 .
433 . //ANALYSIS A//
434 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0014
	Largest FMI	=	0.0137
	Complete DF	=	169
DF adjustment: Small sample	DF:	min	= 163.63
		avg	= 166.65
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	16.09
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-378.1784	16271.27	-0.02	0.981	-32502.08	31745.73
Sex	136197	13742.91	9.91	0.000	109064.8	163329.1
w1Age	-2277.519	857.5673	-2.66	0.009	-3970.591	-584.4467
Race	-69823.2	14288.34	-4.89	0.000	-98032.32	-41614.08
PovStat	-611.1878	16232.42	-0.04	0.970	-32658.4	31436.02
TIME_V1SCAN	-23.08939	11.51114	-2.01	0.046	-45.81553	-.3632549
w1BMI	580.7837	1095.206	0.53	0.597	-1581.452	2743.02
w1currdrugs	-4735.737	17521.83	-0.27	0.787	-39333.79	29862.32
w1SRH	13341.66	8850.931	1.51	0.134	-4132.449	30815.77
_cons	1154504	68434.91	16.87	0.000	1019395	1289613

435 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0041	
Largest FMI	=	0.0281	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 157.71
		avg	= 165.74
		max	= 166.99
Model F test: Equal FMI	F(9, 167.0)	=	18.82
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-1595.194	8653.496	-0.18	0.854	-18679.78 15489.39
Sex	69891.18	7303.314	9.57	0.000	55472.45 84309.9
w1Age	-2087.205	456.2807	-4.57	0.000	-2988.047 -1186.363
Race	-48040.98	7599.986	-6.32	0.000	-63045.69 -33036.28
PovStat	-1838.919	8632.395	-0.21	0.832	-18881.83 15203.99
TIME_V1SCAN	-9.006502	6.131607	-1.47	0.144	-21.1125 3.099498
w1BMI	396.8678	582.3131	0.68	0.496	-752.7884 1546.524
w1currdrugs	-11685.5	9377.296	-1.25	0.215	-30206.78 6835.785
w1SRH	8620.546	4705.936	1.83	0.069	-670.3185 17911.41
_cons	701445.1	36393.28	19.27	0.000	629593.8 773296.4

436 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0017	
Largest FMI	=	0.0084	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 165.21
		avg	= 166.70
		max	= 167.01
Model F test: Equal FMI	F(9, 167.0)	=	10.52
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-2450.451	7947.388	-0.31	0.758	-18140.77 13239.87
Sex	56441.61	6714.369	8.41	0.000	43185.57 69697.64
w1Age	-579.7381	418.8885	-1.38	0.168	-1406.74 247.2639
Race	-19829.72	6980.845	-2.84	0.005	-33611.91 -6047.538
PovStat	-3473.502	7929.372	-0.44	0.662	-19128.28 12181.27
TIME_V1SCAN	-12.63201	5.629479	-2.24	0.026	-23.74639 -1.517635
w1BMI	179.6478	534.8397	0.34	0.737	-876.2702 1235.566
w1currdrugs	8566.418	8535.541	1.00	0.317	-8286.381 25419.22
w1SRH	3782.228	4325.88	0.87	0.383	-4758.315 12322.77
_cons	446454.7	33418.06	13.36	0.000	380478.4 512431

437 .

438 . //ANALYSIS B//

439 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0047	
Largest FMI	=	0.0454	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 147.47
		avg	= 164.27
		max	= 166.03
Model F test:	Equal FMI	F(10, 166.0)	= 15.05
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-136.157	52.68472	-2.58	0.011	-240.1754 -32.13855
Sex	-27.51592	59.36658	-0.46	0.644	-144.7268 89.69497
w1Age	-4.009236	2.77962	-1.44	0.151	-9.497211 1.47874
Race	-96.83791	50.38935	-1.92	0.056	-196.3255 2.649657
PovStat	-154.6367	52.56458	-2.94	0.004	-258.418 -50.85544
TIME_V1SCAN	.0176093	.0375331	0.47	0.640	-.0564946 .0917131
w1BMI	.6775142	3.551356	0.19	0.849	-6.334187 7.689215
w1currdrugs	-21.27424	57.64691	-0.37	0.713	-135.195 92.64652
w1SRH	-25.42415	28.83538	-0.88	0.379	-82.35553 31.50722
ICV_volum2	.0016577	.0002193	7.56	0.000	.0012247 .0020906
_cons	1942.724	348.3955	5.58	0.000	1254.863 2630.584

440 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0075	
Largest FMI	=	0.0699	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 132.02
		avg	= 162.81
		max	= 166.03
Model F test:	Equal FMI	F(10, 166.0)	= 17.46
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-131.1078	54.39949	-2.41	0.017	-238.5118 -23.70378
Sex	-104.3911	61.3105	-1.70	0.091	-225.4404 16.65812
w1Age	-2.178597	2.870031	-0.76	0.449	-7.845077 3.487883
Race	-94.35028	52.05386	-1.81	0.072	-197.1251 8.42451
PovStat	-130.9629	54.27535	-2.41	0.017	-238.1219 -23.80389
TIME_V1SCAN	.0536138	.0387692	1.38	0.169	-.0229309 .1301585
w1BMI	.8030966	3.667419	0.22	0.827	-6.437771 8.043964
w1currdrugs	-35.50671	60.25242	-0.59	0.557	-154.6918 83.67839
w1SRH	-33.19553	29.7825	-1.11	0.267	-91.99714 25.60608
ICV_volum2	.0020946	.0002264	9.25	0.000	.0016476 .0025416
_cons	1580.755	359.7529	4.39	0.000	870.4703 2291.039

```

441 .
442 . //ANALYSIS C//
443 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v
Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     179
Average RVI     =   0.0040
Largest FMI     =   0.0390
Complete DF      =     168
DF adjustment:  Small sample
DF:      min      =  151.14
          avg      =  164.60
          max      =  166.03
Model F test:    Equal FMI      F(  10,  166.0)      =     1.41
Within VCE type: OLS          Prob > F      =  0.1782

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.063913	.6947314	1.53	0.128	-.3077394 2.435565
Sex	.4213617	.7826012	0.54	0.591	-1.123771 1.966495
w1Age	.0543597	.0366515	1.48	0.140	-.0180037 .1267232
Race	1.069764	.6640462	1.61	0.109	-.241305 2.380833
PovStat	.7165997	.6931391	1.03	0.303	-.6519094 2.085109
TIME_V1SCAN	-.000482	.0004949	-0.97	0.331	-.0014591 .0004951
w1BMI	.035091	.0468145	0.75	0.455	-.0573381 .1275201
w1currdrugs	.0720046	.7575805	0.10	0.924	-1.424811 1.56882
w1SRH	-.4576784	.3801045	-1.20	0.230	-1.20814 .2927827
ICV_volum2	2.69e-06	2.89e-06	0.93	0.354	-3.02e-06 8.40e-06
_cons	-3.084195	4.592905	-0.67	0.503	-12.15226 5.983872

```

444 .
445 . save, replace
  file finaldata_imputed.dta saved

446 .
447 .
448 . //Males//
449 .
450 .
451 . use finaldata_imputed,clear

452 .
453 .
454 . //ANALYSIS A//
455 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_
Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     80
Average RVI     =   0.0012
Largest FMI     =   0.0090
Complete DF      =     71
DF adjustment:  Small sample
DF:      min      =  68.45
          avg      =  68.98
          max      =  69.08
Model F test:    Equal FMI      F(  8,  69.1)      =     2.81
Within VCE type: OLS          Prob > F      =  0.0093

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-7535.122	27687.21	-0.27	0.786	-62768.63 47698.38
Sex	0	(omitted)			
w1Age	-2324.267	1601.397	-1.45	0.151	-5518.926 870.392
Race	-95745.18	27102.85	-3.53	0.001	-149813.4 -41677
PovStat	16652.61	28464.62	0.59	0.560	-40132.05 73437.26
TIME_V1SCAN	-43.38054	20.66746	-2.10	0.039	-84.61156 -2.149521
w1BMI	606.4291	2560.267	0.24	0.813	-4501.061 5713.92
w1currdrugs	13246.91	33538.77	0.39	0.694	-53670.68 80164.49
w1SRH	4355.603	16858.77	0.26	0.797	-29276.09 37987.3
_cons	1503489	110383.2	13.62	0.000	1283285 1723694

456 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0024	
Largest FMI	=	0.0221	
Complete DF	=	71	
DF adjustment: Small sample	DF:	min	= 67.18
		avg	= 68.84
		max	= 69.08
Model F test: Equal FMI	F(8, 69.1)	=	4.89
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-9490.629	14326.8	-0.66	0.510	-38071.33 19090.07
Sex	0	(omitted)			
w1Age	-2448.447	828.4721	-2.96	0.004	-4101.171 -795.7228
Race	-63492.79	14043.59	-4.52	0.000	-91510.2 -35475.38
PovStat	4109.758	14725.56	0.28	0.781	-25266.33 33485.84
TIME_V1SCAN	-19.05145	10.68436	-1.78	0.079	-40.36574 2.262833
w1BMI	570.1668	1324.775	0.43	0.668	-2072.633 3212.967
w1currdrugs	-1988.982	17465.01	-0.11	0.910	-36847.62 32869.65
w1SRH	7149.491	8723.052	0.82	0.415	-10252.16 24551.14
_cons	892537.3	57112.64	15.63	0.000	778602.9 1006472

457 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0017	
Largest FMI	=	0.0090	
Complete DF	=	71	
DF adjustment: Small sample	DF:	min	= 68.45
		avg	= 68.95
		max	= 69.07
Model F test: Equal FMI	F(8, 69.1)	=	1.74
Within VCE type: OLS	Prob > F	=	0.1048

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-7328.134	13410.21	-0.55	0.587	-34080.27 19424.01
Sex	0	(omitted)			
w1Age	-340.6607	776.1353	-0.44	0.662	-1889.024 1207.702
Race	-31812.24	13133.58	-2.42	0.018	-58013.2 -5611.282
PovStat	3325.504	13796.01	0.24	0.810	-24197.1 30848.1
TIME_V1SCAN	-22.20589	10.04139	-2.21	0.030	-42.24077 -2.171016
w1BMI	-197.611	1240.157	-0.16	0.874	-2671.61 2276.388
w1currdrugs	15885.11	16189.01	0.98	0.330	-16411.09 48181.31
w1SRH	-2977.218	8167.718	-0.36	0.717	-19271.2 13316.76
_cons	601787.1	53495.11	11.25	0.000	495066.9 708507.3

458 .

459 .

460 .

461 . //ANALYSIS B//

462 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0030	
Largest FMI	=	0.0136	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 67.06
	avg	=	67.87
	max	=	68.08
Model F test: Equal FMI	F(9, 68.1)	=	9.51
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-143.6007	80.96365	-1.77	0.081	-305.1587 17.95727
Sex	0	(omitted)			
w1Age	-3.876959	4.685185	-0.83	0.411	-13.22638 5.472459
Race	14.16468	88.72828	0.16	0.874	-162.893 191.2223
PovStat	-263.2639	83.39867	-3.16	0.002	-429.6887 -96.83917
TIME_V1SCAN	.0250217	.0620078	-0.40	0.688	-.1487877 .0987443
w1BMI	2.29373	7.484906	0.31	0.760	-12.64187 17.22933
w1currdrugs	-109.44	98.57523	-1.11	0.271	-306.1627 87.28275
w1SRH	95.74471	49.28134	1.94	0.056	-2.593574 194.083
ICV_volum2	.0021609	.0003167	6.82	0.000	.001529 .0027928
_cons	914.5625	619.076	1.48	0.144	-320.7589 2149.884

463 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0070	
Largest FMI	=	0.0245	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 65.95
	avg	=	67.53
	max	=	68.07
Model F test: Equal FMI	F(9, 68.0)	=	10.16
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-139.9434	83.29832	-1.68	0.098	-306.16	26.27308
Sex	0	(omitted)				
w1Age	-4.356102	4.824255	-0.90	0.370	-13.98335	5.271146
Race	25.34646	91.63995	0.28	0.783	-157.5525	208.2454
PovStat	-227.4395	85.87112	-2.65	0.010	-398.8034	-56.0756
TIME_V1SCAN	.0367995	.0640372	0.57	0.567	-.0910441	.164643
w1BMI	8.103968	7.701373	1.05	0.296	-7.263612	23.47155
w1currdrugs	-163.934	102.2866	-1.60	0.114	-368.1587	40.29066
w1SRH	55.90012	50.72288	1.10	0.274	-45.31611	157.1163
ICV_volum2	.0024666	.0003258	7.57	0.000	.0018166	.0031166
_cons	541.0278	636.9806	0.85	0.399	-730.0237	1812.079

```

464 .
465 . //ANALYSIS C //
466 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v
Multiple-imputation estimates
Linear regression
Imputations = 5
Number of obs = 80
Average RVI = 0.0049
Largest FMI = 0.0410
Complete DF = 70
DF adjustment: Small sample
DF: min = 63.91
avg = 67.58
max = 68.08
Model F test: Equal FMI F( 9, 68.1) = 0.70
Within VCE type: OLS Prob > F = 0.7050

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	1.160831	.8091158	1.43	0.156	-.4537167	2.775379
Sex	0	(omitted)				
w1Age	-.0279196	.0467708	-0.60	0.553	-.1212485	.0654093
Race	1.148375	.8877044	1.29	0.200	-.6231302	2.919881
PovStat	.2592163	.8325227	0.31	0.756	-1.402046	1.920478
TIME_V1SCAN	-.0005118	.0006167	-0.83	0.409	-.0017424	.0007188
w1BMI	-.0275693	.0747918	-0.37	0.714	-.176811	.1216724
w1currdrugs	.4062204	1.001546	0.41	0.686	-1.594653	2.407094
w1SRH	-.1720342	.4923444	-0.35	0.728	-1.154474	.8104059
ICV_volum2	1.97e-07	3.16e-06	0.06	0.951	-6.12e-06	6.51e-06
_cons	6.845544	6.188585	1.11	0.273	-5.503516	19.1946

```

467 .
468 . save, replace
file finaldata_imputed.dta saved
469 .
470 .

```

```

471 .
472 . //Females//
473 .
474 . use finaldata_imputed,clear

475 .
476 .
477 . //ANALYSIS A//
478 . mi estimate: reg TOTALBRAIN NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0043	
Largest FMI	=	0.0373	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 82.73
		avg	= 87.33
		max	= 88.06
Model F test: Equal FMI	F(8, 88.0)	=	3.42
Within VCE type: OLS	Prob > F	=	0.0018

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-484.0696	19846.02	-0.02	0.981	-39924.37 38956.23
Sex	0	(omitted)			
w1Age	-2348.317	981.5533	-2.39	0.019	-4299.004 -397.6313
Race	-54564.62	15858.64	-3.44	0.001	-86080.14 -23049.1
PovStat	-17473.71	19007.92	-0.92	0.360	-55248.24 20300.81
TIME_V1SCAN	-2.822575	13.33895	-0.21	0.833	-29.33106 23.68591
w1BMI	861.1213	1120.783	0.77	0.444	-1366.261 3088.504
w1currdrugs	-9348.02	19819.3	-0.47	0.638	-48769.73 30073.69
w1SRH	22412.18	9947.329	2.25	0.027	2644.14 42180.22
_cons	1228550	75975.84	16.17	0.000	1077556 1379543

```

479 . mi estimate: reg GM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0090	
Largest FMI	=	0.0663	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 76.34
		avg	= 86.33
		max	= 87.94
Model F test: Equal FMI	F(8, 88.0)	=	5.07
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	4123.192	11049.6	0.37	0.710	-17837.45 26083.83
Sex	0	(omitted)			
w1Age	-1946.535	546.7024	-3.56	0.001	-3033.12 -859.9496
Race	-39764.76	8815.252	-4.51	0.000	-57283.42 -22246.11
PovStat	-7542.312	10570.28	-0.71	0.477	-28549.33 13464.71
TIME_V1SCAN	.5168442	7.420758	0.07	0.945	-14.23107 15.26476
w1BMI	625.17	623.6671	1.00	0.319	-614.3406 1864.681
w1currdrugs	-13818.85	11168.43	-1.24	0.220	-36061.09 8423.391
w1SRH	10059.89	5529.838	1.82	0.072	-929.6156 21049.39
_cons	730326.6	42314.62	17.26	0.000	646223.1 814430.2

480 . mi estimate: reg WM NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0017
	Largest FMI	=	0.0088
	Complete DF	=	90
DF adjustment:	Small sample	DF:	
		min	= 87.22
		avg	= 87.90
		max	= 88.03
Model F test:	Equal FMI	F(8, 88.1)	= 1.91
Within VCE type:	OLS	Prob > F	= 0.0688

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-1494.384	9689.131	-0.15	0.878	-20749.46 17760.69
Sex	0	(omitted)			
w1Age	-749.1285	478.9109	-1.56	0.121	-1700.858 202.6012
Race	-12046.89	7747.005	-1.56	0.124	-27442.38 3348.593
PovStat	-9633.157	9282.218	-1.04	0.302	-28079.61 8813.297
TIME_V1SCAN	-2.745555	6.517735	-0.42	0.675	-15.69837 10.20726
w1BMI	434.8826	546.9031	0.80	0.429	-651.9694 1521.735
w1currdrugs	7980.841	9547.02	0.84	0.405	-10994.22 26955.9
w1SRH	10615.26	4863.464	2.18	0.032	949.9705 20280.55
_cons	466276	37050.76	12.58	0.000	392645.4 539906.7

481 .

482 .

483 . //ANALYSIS B//

484 . mi estimate: reg Left_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0235
	Largest FMI	=	0.1896
	Complete DF	=	89
DF adjustment:	Small sample	DF:	
		min	= 46.58
		avg	= 82.49
		max	= 87.05
Model F test:	Equal FMI	F(9, 86.8)	= 5.42
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-36.93699	66.35506	-0.56	0.579	-168.8299 94.95591
Sex	0	(omitted)			
w1Age	-5.631431	3.304755	-1.70	0.092	-12.20105 .9381888
Race	-154.5506	57.21321	-2.70	0.008	-268.2678 -40.83333
PovStat	-100.5422	63.84538	-1.57	0.119	-227.4504 26.3661
TIME_V1SCAN	.032492	.0445991	0.73	0.468	-.0561563 .1211403
w1BMI	.9029473	3.768018	0.24	0.811	-6.587992 8.393887
w1currdrugs	-.2419509	71.93816	-0.00	0.997	-144.9971 144.5132
w1SRH	-92.05483	34.45674	-2.67	0.009	-160.5408 -23.56888
ICV_volum2	.0012899	.0003001	4.30	0.000	.0006933 .0018865
_cons	2527.716	481.4024	5.25	0.000	1570.645 3484.787

485 . mi estimate: reg Right_Hippocampus NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0174
		Largest FMI	=	0.1459
		Complete DF	=	89
DF adjustment:	Small sample	DF:	min	56.03
			avg	83.60
			max	87.05
Model F test:	Equal FMI	F(9,	86.9)
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-44.59298	71.58228	-0.62	0.535	-186.8746 97.68867
Sex	0	(omitted)			
w1Age	-2.591615	3.560806	-0.73	0.469	-9.669837 4.486608
Race	-146.8192	61.73495	-2.38	0.020	-269.5237 -24.11472
PovStat	-65.97225	68.8584	-0.96	0.341	-202.8427 70.89816
TIME_V1SCAN	.0501866	.0481256	1.04	0.300	-.0454711 .1458444
w1BMI	-.4903057	4.057966	-0.12	0.904	-8.557012 7.576401
w1currdrugs	6.750882	75.86893	0.09	0.929	-145.2313 158.7331
w1SRH	-94.6402	37.18279	-2.55	0.013	-168.5445 -20.73592
ICV_volum2	.0019543	.0003238	6.04	0.000	.0013108 .0025979
_cons	1794.082	518.361	3.46	0.001	763.629 2824.536

486 .

487 . //ANALYSIS C//

488 . mi estimate: reg LnLesion_Volume NFLw1w3trackhigh Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0032
		Largest FMI	=	0.0286
		Complete DF	=	89
DF adjustment:	Small sample	DF:	min	83.39
			avg	86.62
			max	87.06
Model F test:	Equal FMI	F(9,	87.0)
Within VCE type:	OLS	Prob > F	=	0.1059

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.058906	1.136078	0.93	0.354	-1.199173 3.316985
Sex	0	(omitted)			
w1Age	.1336205	.0564139	2.37	0.020	.0214903 .2457508
Race	1.014867	.9805742	1.03	0.304	-.9341153 2.96385
PovStat	1.096817	1.092178	1.00	0.318	-1.074008 3.267643
TIME_V1SCAN	-.0005269	.0007637	-0.69	0.492	-.0020448 .000991
w1BMI	.0806887	.0642443	1.26	0.212	-.0470056 .208383
w1currdrugs	.232215	1.136393	0.20	0.839	-2.027869 2.492299
w1SRH	-.9477798	.5906211	-1.60	0.112	-2.121691 .2261313
ICV_volum2	8.11e-06	5.14e-06	1.58	0.118	-2.11e-06 .0000183
_cons	-13.97042	8.204075	-1.70	0.092	-30.27722 2.336375

```

489 .
490 . save, replace
  file finaldata_imputed.dta saved

491 .
492 . *****INTERACTION BY Sex*****
493 .
494 .
495 . //ANALYSIS A//
496 . mi estimate: reg TOTALBRAIN c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	179
Average RVI	=	0.0013
Largest FMI	=	0.0134
Complete DF	=	168
DF adjustment: Small sample	DF:	min = 162.73
		avg = 165.69
		max = 166.03
Model F test: Equal FMI	F(10, 166.0)	= 14.40
Within VCE type: OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3trackhigh	-1745.976	22105.61	-0.08	0.937	-45390.39	41898.44
Sex Men	135130.8	18026.06	7.50	0.000	99540.92	170720.6
Sex#c.NFLw1w3trackhigh Men	2697.815	29399.13	0.09	0.927	-55346.53	60742.16
Sex 0 (omitted)						
w1Age	-2267.344	867.2554	-2.61	0.010	-3979.618	-555.0689
Race	-69702.21	14390.53	-4.84	0.000	-98114.31	-41290.11
PovStat	-758.3588	16358.6	-0.05	0.963	-33056.09	31539.38
TIME_V1SCAN	-23.19301	11.60039	-2.00	0.047	-46.09636	-.2896581
w1BMI	563.6051	1114.204	0.51	0.614	-1636.234	2763.444
w1currdrugs	-4667.266	17590.48	-0.27	0.791	-39402.3	30067.77
w1SRH	13479.65	9003.332	1.50	0.136	-4296.12	31255.42
_cons	1291150	65199.12	19.80	0.000	1162424	1419877

```

497 . mi estimate: reg GM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	179
Average RVI	=	0.0042
Largest FMI	=	0.0309
Complete DF	=	168
DF adjustment: Small sample	DF:	min = 155.44
		avg = 164.68
		max = 165.94
Model F test: Equal FMI	F(10, 166.0)	= 16.97
Within VCE type: OLS	Prob > F	= 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	4813.51	11738.59	0.41	0.682	-18363.17 27990.2
Sex					
Men	74884.71	9562.751	7.83	0.000	56004.36 93765.05
Sex#c.NFLw1w3trackhigh					
Men	-12636.58	15598.4	-0.81	0.419	-43433.58 18160.42
Sex	0 (omitted)				
w1Age	-2134.987	460.6726	-4.63	0.000	-3044.545 -1225.428
Race	-48606.21	7639.836	-6.36	0.000	-63690.26 -33522.16
PovStat	-1151.135	8682.963	-0.13	0.895	-18294.64 15992.37
TIME_V1SCAN	-8.520201	6.168986	-1.38	0.169	-20.70061 3.660212
w1BMI	477.198	591.2503	0.81	0.421	-690.1527 1644.549
w1currdrugs	-12018.73	9410.016	-1.28	0.203	-30606.74 6569.28
w1SRH	7974.505	4777.336	1.67	0.097	-1457.724 17406.73
_cons	769240.2	34613	22.22	0.000	700900.5 837579.9

498 . mi estimate: reg WM c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_f

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0015	
Largest FMI	=	0.0078	
Complete DF	=	168	
DF adjustment:	Small sample	DF:	min = 164.41
			avg = 165.74
			max = 166.01
Model F test:	Equal FMI	F(10, 166.0)	= 9.42
Within VCE type:	OLS	Prob > F	= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-4317.967	10796.09	-0.40	0.690	-25633.37 16997.44
Sex					
Men	54986.6	8805.198	6.24	0.000	37601.93 72371.27
Sex#c.NFLw1w3trackhigh					
Men	3682.141	14357.46	0.26	0.798	-24664.63 32028.91
Sex	0 (omitted)				
w1Age	-565.8098	423.5582	-1.34	0.183	-1402.068 270.4487
Race	-19665.11	7029.763	-2.80	0.006	-33544.49 -5785.739
PovStat	-3673.833	7989.805	-0.46	0.646	-19448.61 12100.95
TIME_V1SCAN	-12.77379	5.672442	-2.25	0.026	-23.97349 -1.574085
w1BMI	156.2473	544.0502	0.29	0.774	-917.9022 1230.397
w1currdrugs	8664.269	8565.694	1.01	0.313	-8248.68 25577.22
w1SRH	3970.48	4399.452	0.90	0.368	-4715.69 12656.65
_cons	503506.7	31835.06	15.82	0.000	440652.8 566360.5

499 .

500 .

501 . //ANALYSIS B//

502 . mi estimate: reg Left_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1S

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0037
Largest FMI	= 0.0386
Complete DF	= 167
DF adjustment: Small sample	DF: min = 150.52
	avg = 163.76
	max = 165.03
Model F test: Equal FMI	F(11, 165.0) = 13.96
Within VCE type: OLS	Prob > F = 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-67.69899	71.16806	-0.95	0.343	-208.2163 72.81837
Sex					
Men	23.82582	69.28089	0.34	0.731	-112.9655 160.6171
Sex#c.NFLw1w3trackhigh					
Men	-134.9807	94.68573	-1.43	0.156	-321.9322 51.97092
Sex	0 (omitted)				
w1Age	-4.513243	2.793514	-1.62	0.108	-10.02889 1.002408
Race	-101.8672	50.35686	-2.02	0.045	-201.2949 -2.439377
PovStat	-147.2605	52.65674	-2.80	0.006	-251.2283 -43.29269
TIME_V1SCAN	.0230253	.0376124	0.61	0.541	-.0512384 .0972891
w1BMI	1.527927	3.590107	0.43	0.671	-5.560586 8.616441
w1currdrugs	-24.75435	57.33614	-0.43	0.667	-138.042 88.53327
w1SRH	-32.48551	29.17185	-1.11	0.267	-90.08378 25.11277
ICV_volM2	.0016688	.0002187	7.63	0.000	.0012369 .0021007
_cons	1877.118	372.6141	5.04	0.000	1141.41 2612.826

503 . mi estimate: reg Right_Hippocampus c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1S

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0061
Largest FMI	= 0.0616
Complete DF	= 167
DF adjustment: Small sample	DF: min = 136.68
	avg = 162.56
	max = 165.03
Model F test: Equal FMI	F(11, 165.0) = 16.30
Within VCE type: OLS	Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	-50.39271	73.35135	-0.69	0.493	-195.2209 94.43553
Sex					
Men	-43.85724	71.41211	-0.61	0.540	-184.8568 97.14232
Sex#c.NFLw1w3trackhigh					
Men	-159.1479	97.58866	-1.63	0.105	-351.8312 33.53547
Sex	0 (omitted)				
w1Age	-2.772852	2.879053	-0.96	0.337	-8.457395 2.911691

Race	-100.2797	51.9239	-1.93	0.055	-202.8024	2.242956
PovStat	-122.2662	54.26972	-2.25	0.026	-229.4187	-15.11359
TIME_V1SCAN	.0599997	.0387819	1.55	0.124	-.0165736	.136573
w1BMI	1.805754	3.700468	0.49	0.626	-5.500676	9.112184
w1currdrugs	-39.61192	59.77336	-0.66	0.509	-157.8121	78.58829
w1SRH	-41.52121	30.07548	-1.38	0.169	-100.904	17.86156
ICV_volM2	.0021078	.0002254	9.35	0.000	.0016626	.0025529
_cons	1431.456	384.0359	3.73	0.000	673.1957	2189.716

504 .

505 . //ANALYSIS C//

506 . mi estimate: reg LnLesion_Volume c.NFLw1w3trackhigh##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SR

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0033	
Largest FMI	=	0.0356	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	= 152.14
		avg	= 163.90
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	1.36
Within VCE type: OLS	Prob > F	=	0.1986

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3trackhigh	1.628259	.941938	1.73	0.086	-.2315516 3.488069
Sex					
Men	.8446177	.9166855	0.92	0.358	-.9653252 2.654561
Sex#c.NFLw1w3trackhigh					
Men	-1.112762	1.252972	-0.89	0.376	-3.586685 1.36116
Sex	0 (omitted)				
w1Age	.0502056	.0369709	1.36	0.176	-.0227918 .1232029
Race	1.028298	.6660859	1.54	0.125	-.2868563 2.343452
PovStat	.7774219	.6968932	1.12	0.266	-.5985587 2.153403
TIME_V1SCAN	-.0004374	.0004977	-0.88	0.381	-.0014201 .0005454
w1BMI	.0421026	.0474999	0.89	0.377	-.0516837 .1358888
w1currdrugs	.0433938	.7575588	0.06	0.954	-1.453299 1.540087
w1SRH	-.5158926	.3859504	-1.34	0.183	-1.277929 .2461443
ICV_volM2	2.78e-06	2.89e-06	0.96	0.338	-2.93e-06 8.50e-06
_cons	-2.976905	4.930385	-0.60	0.547	-12.7117 6.757887

507 .

508 . save, replace
file finaldata_imputed.dta saved

509 .

```

510 .
511 .
512 .
513 . *****TABLE S7: NFLw1w3tracklow, MODELS 1 AND 2*****
514 .
515 . **ANALYSES A-C, TOTAL POPULATION**
516 .
517 . **Model 1**
518 .
519 . use HANDLS_paper51_NFLBRAINSTCANFINALIZED,clear

520 .
521 . //ANALYSIS A//
522 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

```

Source	SS	df	MS	Number of obs	=	179
Model	1.1263e+12	6	1.8771e+11	F(6, 172)	=	23.80
Residual	1.3566e+12	172	7.8874e+09	Prob > F	=	0.0000
				R-squared	=	0.4536
Total	2.4829e+12	178	1.3949e+10	Adj R-squared	=	0.4346
				Root MSE	=	88811

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	6771.031	15310.48	0.44	0.659	.0276475
Sex	137222.5	13464.06	10.19	0.000	.5792689
w1Age	-2097.394	832.2298	-2.52	0.013	-.161707
Race	-71458.98	14063.98	-5.08	0.000	-.2987855
PovStat	-3658.003	15879.17	-0.23	0.818	-.0144007
TIME_V1SCAN	-21.51427	11.32369	-1.90	0.059	-.1154225
_cons	1190396	59118.56	20.14	0.000	.

```

523 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

```

Source	SS	df	MS	Number of obs	=	179
Model	3.6868e+11	6	6.1447e+10	F(6, 172)	=	27.20
Residual	3.8856e+11	172	2.2591e+09	Prob > F	=	0.0000
Total	7.5724e+11	178	4.2542e+09	R-squared	=	0.4869
				Adj R-squared	=	0.4690
				Root MSE	=	47530

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	9037.956	8193.81	1.10	0.272	.0668244
Sex	70962.32	7205.65	9.85	0.000	.5424328
w1Age	-1869.392	445.3898	-4.20	0.000	-.2609832
Race	-50518.56	7526.71	-6.71	0.000	-.3824874
PovStat	-2948.81	8498.159	-0.35	0.729	-.0210208
TIME_V1SCAN	-8.337926	6.060172	-1.38	0.171	-.081
_cons	717489.4	31638.86	22.68	0.000	.

524 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	1.7542e+11	6	2.9236e+10	F(6, 172)	=	15.61
Residual	3.2223e+11	172	1.8734e+09	Prob > F	=	0.0000
Total	4.9764e+11	178	2.7958e+09	R-squared	=	0.3525
				Adj R-squared	=	0.3299
				Root MSE	=	43283

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-877.3316	7461.708	-0.12	0.907	-.0080018
Sex	56210.73	6561.839	8.57	0.000	.5300243
w1Age	-675.9694	405.5951	-1.67	0.097	-.1164119
Race	-18525.65	6854.213	-2.70	0.008	-.1730206
PovStat	-5069.724	7738.864	-0.66	0.513	-.0445805
TIME_V1SCAN	-11.69874	5.518707	-2.12	0.035	-.1401925
_cons	464513.9	28811.99	16.12	0.000	.

525 .

526 . //ANALYSIS B//

527 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	11857309.7	7	1693901.39	F(7, 171)	=	19.82
Residual	14612774.1	171	85454.8195	Prob > F	=	0.0000
Total	26470083.9	178	148708.336	R-squared	=	0.4480
				Adj R-squared	=	0.4254
				Root MSE	=	292.33

Left_Hippocampus	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-14.24878	50.39653	-0.28	0.778	-.017819
Sex	-30.66038	59.54609	-0.51	0.607	-.0396402
w1Age	-7.216753	2.741313	-2.63	0.009	-.1704097
Race	-83.58077	50.53419	-1.65	0.100	-.1070318
PovStat	-133.734	52.28043	-2.56	0.011	-.1612443
TIME_V1SCAN	.0126694	.0374994	0.34	0.736	.0208173
ICV_volum2	.0016551	.000221	7.49	0.000	.6098583
_cons	1983.026	342.2981	5.79	0.000	.

528 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	14849774.3	7	2121396.33	F(7, 171)	=	23.31
Residual	15561453	171	91002.6492	Prob > F	=	0.0000
Total	30411227.3	178	170849.592	R-squared	=	0.4883
				Adj R-squared	=	0.4674
				Root MSE	=	301.67

Right_Hippocas~	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	21.41305	52.00671	0.41	0.681	.024983
Sex	-106.708	61.44859	-1.74	0.084	-.1287112
w1Age	-4.48918	2.828899	-1.59	0.114	-.0988963
Race	-87.37167	52.14876	-1.68	0.096	-.1043849
PovStat	-108.1448	53.9508	-2.00	0.047	-.121649
TIME_V1SCAN	.0475265	.0386975	1.23	0.221	.0728558
ICV_volum2	.0020857	.000228	9.15	0.000	.7169981
_cons	1566.782	353.2345	4.44	0.000	.

529 .

530 . //ANALYSIS C//

531 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1, beta

Source	SS	df	MS	Number of obs	=	179
Model	191.301133	7	27.3287332	F(7, 171)	=	1.92
Residual	2433.81021	171	14.2328082	Prob > F	=	0.0691
Total	2625.11134	178	14.7478165	R-squared	=	0.0729
				Adj R-squared	=	0.0349
				Root MSE	=	3.7726

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1.203905	.6503957	-1.85	0.066	-.1511822
Sex	.3378777	.7684759	0.44	0.661	.0438654
w1Age	.0527452	.0353782	1.49	0.138	.125066
Race	1.089808	.6521722	1.67	0.097	.1401393
PovStat	.8057497	.6747084	1.19	0.234	.0975543
TIME_V1SCAN	-.0006371	.000484	-1.32	0.190	-.1051116
ICV_volum2	2.34e-06	2.85e-06	0.82	0.413	.0866681
_cons	-1.397283	4.41755	-0.32	0.752	.

532 .

533 .

534 .

535 . **Model 2: BMI-Adjusted**

536 .

537 . use finaldata_imputed,clear

538 .

539 .

540 . //ANALYSIS A//

541 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	171
DF adjustment: Small sample	DF: min	=	169.03
	avg	=	169.03
	max	=	169.03
Model F test: Equal FMI	F(7, 169.0)	=	20.37
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5709.1	15445.7	0.37	0.712	-24782.21 36200.41
Sex	138408.6	13639.82	10.15	0.000	111482.3 165335
w1Age	-2137.173	836.559	-2.55	0.012	-3788.622 -485.7238
Race	-71497.3	14090.96	-5.07	0.000	-99314.23 -43680.36
PovStat	-3967.84	15918.2	-0.25	0.803	-35391.91 27456.23
TIME_V1SCAN	-20.98156	11.38143	-1.84	0.067	-43.44961 1.486485
w1BMI	623.3182	1060.348	0.59	0.557	-1469.912 2716.549
_cons	1172086	66921.8	17.51	0.000	1039976 1304196

542 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	171	
DF adjustment: Small sample	DF:	min	= 169.03
		avg	= 169.03
		max	= 169.03
Model F test: Equal FMI	F(7, 169.0)	=	23.40
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	8182.478	8255.594	0.99	0.323	-8114.87 24479.83
Sex	71917.85	7290.37	9.86	0.000	57525.95 86309.75
w1Age	-1901.437	447.1337	-4.25	0.000	-2784.122 -1018.751
Race	-50549.43	7531.5	-6.71	0.000	-65417.35 -35681.52
PovStat	-3198.411	8508.141	-0.38	0.707	-19994.31 13597.49
TIME_V1SCAN	-7.908786	6.083276	-1.30	0.195	-19.91777 4.100194
w1BMI	502.137	566.7471	0.89	0.377	-616.677 1620.951
_cons	702739.2	35769.14	19.65	0.000	632127.4 773350.9

543 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	171	
DF adjustment: Small sample	DF:	min	= 169.03
		avg	= 169.03
		max	= 169.03
Model F test: Equal FMI	F(7, 169.0)	=	13.32
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1124.473	7533.476	-0.15	0.882	-15996.29 13747.34
Sex	56486.77	6652.68	8.49	0.000	43353.73 69619.81
w1Age	-685.2269	408.0228	-1.68	0.095	-1490.704 120.2499
Race	-18534.57	6872.718	-2.70	0.008	-32101.98 -4967.151
PovStat	-5141.832	7763.932	-0.66	0.509	-20468.59 10184.93
TIME_V1SCAN	-11.57476	5.551171	-2.09	0.039	-22.53332 -.6162111
w1BMI	145.0639	517.1736	0.28	0.779	-875.8873 1166.015
_cons	460252.7	32640.4	14.10	0.000	395817.4 524688

544 .

545 . //ANALYSIS B//

546 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_fi

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	170
DF adjustment:	Small sample	DF: min	=	168.03
		avg	=	168.03
		max	=	168.03
Model F test:	Equal FMI	F(8, 168.0)	=	17.43
Within VCE type:	OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-19.64415	50.7689	-0.39	0.699	-119.8712 80.58291
Sex	-22.7661	60.20371	-0.38	0.706	-141.6192 96.08698
w1Age	-7.424355	2.752151	-2.70	0.008	-12.8576 -1.991108
Race	-84.71814	50.57494	-1.68	0.096	-184.5623 15.12601
PovStat	-135.3682	52.33742	-2.59	0.011	-238.6918 -32.04464
TIME_V1SCAN	.0151931	.0376204	0.40	0.687	-.0590765 .0894627
w1BMI	3.177014	3.489821	0.91	0.364	-3.712528 10.06656
ICV_vo1M2	.0016448	.0002214	7.43	0.000	.0012078 .0020819
_cons	1902.791	353.6285	5.38	0.000	1204.664 2600.918

547 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_fi

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	170
DF adjustment:	Small sample	DF: min	=	168.03
		avg	=	168.03
		max	=	168.03
Model F test:	Equal FMI	F(8, 168.0)	=	20.46
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	16.20027	52.40674	0.31	0.758	-87.26018 119.6607
Sex	-99.08088	62.14592	-1.59	0.113	-221.7682 23.60648
w1Age	-4.689757	2.840937	-1.65	0.101	-10.29828 .9187707
Race	-88.47055	52.20652	-1.69	0.092	-191.5357 14.59464
PovStat	-109.7237	54.02585	-2.03	0.044	-216.3806 -3.0668
TIME_V1SCAN	.0499648	.0388341	1.29	0.200	-.0267008 .1266304
w1BMI	3.069504	3.602405	0.85	0.395	-4.042299 10.18131
ICV_vo1M2	.0020758	.0002285	9.08	0.000	.0016247 .0025269
_cons	1489.263	365.0367	4.08	0.000	768.614 2209.912

```

548 .
549 . //ANALYSIS C//
550 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_final==1 & Sex==2, beta
      note: Sex omitted because of collinearity.

Multiple-imputation estimates
  Imputations = 5
  Linear regression
  Number of obs = 179
  Average RVI = 0.0000
  Largest FMI = 0.0000
  Complete DF = 170
  DF adjustment: Small sample
  DF: min = 168.03
        avg = 168.03
        max = 168.03
  Model F test: Equal FMI = 1.72
  Within VCE type: OLS = 0.0976

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.249257	.6561202	-1.90	0.059	-2.544558 .0460439
Sex	.4042355	.7780525	0.52	0.604	-1.131782 1.940253
w1Age	.0510002	.0355679	1.43	0.153	-.0192173 .1212176
Race	1.080247	.6536136	1.65	0.100	-.2101051 2.3706
PovStat	.7920128	.6763912	1.17	0.243	-.5433067 2.127332
TIME_V1SCAN	-.0006158	.0004862	-1.27	0.207	-.0015757 .000344
w1BMI	.0267053	.0451013	0.59	0.555	-.0623328 .1157435
ICV_vo1M2	2.26e-06	2.86e-06	0.79	0.431	-3.39e-06 7.90e-06
_cons	-2.071719	4.570176	-0.45	0.651	-11.09408 6.95064

```

551 .
552 . save, replace
      file finaldata_imputed.dta saved

553 .
554 . *****MALES*****
555 .
556 . **Model 1**
557 .
558 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

559 .
560 . //ANALYSIS A//
561 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2, beta
      note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs = 80
Model	2.4253e+11	5	4.8506e+10	F(5, 74) = 4.58
Residual	7.8349e+11	74	1.0588e+10	Prob > F = 0.0011
Total	1.0260e+12	79	1.2988e+10	R-squared = 0.2364
				Adj R-squared = 0.1848
				Root MSE = 1.0e+05

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	3498.455	25968.19	0.13	0.893	.0147345
Sex	0 (omitted)				.
w1Age	-2308.386	1472.87	-1.57	0.121	-.1768143
Race	-90207.89	24158.27	-3.73	0.000	-.3937679
PovStat	15290.16	27834.47	0.55	0.584	.0584629
TIME_V1SCAN	-41.55387	19.49478	-2.13	0.036	-.223148
_cons	1518424	100458.3	15.11	0.000	.

562 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	1.1126e+11	5	2.2252e+10	F(5, 74)	=	7.74
Residual	2.1270e+11	74	2.8743e+09	Prob > F	=	0.0000
Total	3.2396e+11	79	4.1007e+09	R-squared	=	0.3434
				Adj R-squared	=	0.2991
				Root MSE	=	53612

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	9900.851	13530.22	0.73	0.467	.0742102
Sex	0	(omitted)			.
w1Age	-2357.471	767.4105	-3.07	0.003	-.3213571
Race	-62190.1	12587.2	-4.94	0.000	-.4831141
PovStat	3176.263	14502.61	0.22	0.827	.0216131
TIME_V1SCAN	-16.62804	10.15738	-1.64	0.106	-.1589115
_cons	907828.6	52341.84	17.34	0.000	.

563 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	3.2662e+10	5	6.5323e+09	F(5, 74)	=	2.60
Residual	1.8600e+11	74	2.5135e+09	Prob > F	=	0.0320
Total	2.1866e+11	79	2.7679e+09	R-squared	=	0.1494

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1542.858	12652.71	-0.12	0.903	-.0140758
Sex	0	(omitted)			.
w1Age	-533.6266	717.6393	-0.74	0.459	-.0885392
Race	-25947.95	11770.84	-2.20	0.031	-.2453513
PovStat	2400.722	13562.03	0.18	0.860	.0198838
TIME_V1SCAN	-22.89024	9.498611	-2.41	0.018	-.2662695
_cons	593468.8	48947.16	12.12	0.000	.

564 .

565 .

566 . //ANALYSIS B//

567 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	7007060.52	6	1167843.42	F(6, 73)	=	11.23
Residual	7592271.01	73	104003.712	Prob > F	=	0.0000
Total	14599331.5	79	184801.665	R-squared	=	0.4800

Adj R-squared = **0.4372**

Root MSE = **322.5**

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	62.36076	81.39246	0.77	0.446	.0696275
Sex	0	(omitted)			.
w1Age	-5.302051	4.617147	-1.15	0.255	-.1076623
Race	9.719571	84.49088	0.12	0.909	.0112474
PovStat	-272.3224	87.3295	-3.12	0.003	-.276034
TIME_V1SCAN	-.0018712	.0624761	-0.03	0.976	-.0026639
ICV_volum2	.0021345	.0003309	6.45	0.000	.6299371
_cons	1181.858	637.7298	1.85	0.068	.

568 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	8338595.51	6	1389765.92	F(6, 73)	=	13.12
Residual	7732962.91	73	105930.999	Prob > F	=	0.0000
Total	16071558.4	79	203437.448	R-squared	=	0.5188
				Adj R-squared	=	0.4793
				Root MSE	=	325.47

Right_Hippocas~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	137.7133	82.14313	1.68	0.098	.1465489
Sex	0	(omitted)			.
w1Age	-2.894031	4.659731	-0.62	0.536	-.0560094
Race	1.355574	85.27013	0.02	0.987	.0014951
PovStat	-235.0452	88.13494	-2.67	0.009	-.2270743
TIME_V1SCAN	.0498284	.0630523	0.79	0.432	.0676093
ICV_volum2	.0024345	.000334	7.29	0.000	.6847482
_cons	761.9166	643.6115	1.18	0.240	.

569 .
570 . //ANALYSIS C//
571 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	30.1750162	6	5.02916937	F(6, 73)	=	0.54
Residual	684.166323	73	9.37214141	Prob > F	=	0.7787
Total	714.341339	79	9.04229543	R-squared	=	0.0422
				Adj R-squared	=	-0.0365
				Root MSE	=	3.0614

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-.3903316	.7726435	-0.51	0.615	-.0623041
Sex	0	(omitted)			.
w1Age	-.0189741	.0438297	-0.43	0.666	-.0550802
Race	1.028319	.8020562	1.28	0.204	.1701172
PovStat	.3417814	.8290028	0.41	0.681	.0495269
TIME_V1SCAN	-.0005247	.0005931	-0.88	0.379	-.1067951
ICV_volum2	1.84e-07	3.14e-06	0.06	0.953	.0077741
_cons	5.999273	6.053851	0.99	0.325	.

```

572 .
573 .
574 . **Model 2**
575 .
576 . use finaldata_imputed,clear

577 .
578 .
579 . //ANALYSIS A//
580 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	73	
DF adjustment: Small sample	DF:	min	71.08
	avg	=	71.08
	max	=	71.08
Model F test: Equal FMI	F(6, 71.1)	=	3.79
Within VCE type: OLS	Prob > F	=	0.0025

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4431.464	26258.17	0.17	0.866	-47924.82 56787.75
Sex	0 (omitted)				
w1Age	-2459.061	1542.551	-1.59	0.115	-5534.762 616.6394
Race	-90765.5	24354.48	-3.73	0.000	-139326 -42204.98
PovStat	15713.09	28026.72	0.56	0.577	-40169.52 71595.71
TIME_V1SCAN	-41.42848	19.61455	-2.11	0.038	-80.53802 -2.318938
w1BMI	874.5899	2490.587	0.35	0.727	-4091.403 5840.583
_cons	1500647	113030.5	13.28	0.000	1275274 1726019

```

581 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	73	
DF adjustment: Small sample	DF:	min	71.08
	avg	=	71.08
	max	=	71.08
Model F test: Equal FMI	F(6, 71.1)	=	6.51
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	10939.72	13640.03	0.80	0.425	-16257.2 38136.65
Sex	0 (omitted)				
w1Age	-2525.242	801.2915	-3.15	0.002	-4122.941 -927.5428
Race	-62810.98	12651.15	-4.96	0.000	-88036.16 -37585.79
PovStat	3647.184	14558.72	0.25	0.803	-25381.52 32675.89
TIME_V1SCAN	-16.48842	10.18894	-1.62	0.110	-36.80421 3.827365
w1BMI	973.8244	1293.757	0.75	0.454	-1605.804 3553.452
_cons	888033.5	58714.67	15.12	0.000	770962 1005105

582 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	73
DF adjustment:	Small sample	DF:	
		min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(6, 71.1)	= 2.14
Within VCE type:	OLS	Prob > F	= 0.0593

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1684.282	12803.75	-0.13	0.896	-27213.74 23845.18
Sex	0	(omitted)			
w1Age	-510.7876	752.1637	-0.68	0.499	-2010.531 988.9554
Race	-25863.42	11875.49	-2.18	0.033	-49542.03 -2184.817
PovStat	2336.614	13666.11	0.17	0.865	-24912.32 29585.55
TIME_V1SCAN	-22.90925	9.564253	-2.40	0.019	-41.97946 -3.839034
w1BMI	-132.5689	1214.436	-0.11	0.913	-2554.038 2288.9
_cons	596163.6	55114.83	10.82	0.000	486269.8 706057.3

583 .

584 .

585 . //ANALYSIS B//

586 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	72
DF adjustment:	Small sample	DF:	
		min	= 70.08
		avg	= 70.08
		max	= 70.08
Model F test:	Equal FMI	F(7, 70.1)	= 9.73
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocam~S	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	70.00743	81.89088	0.85	0.396	-93.31549 233.3304
Sex	0	(omitted)			
w1Age	-6.543935	4.812656	-1.36	0.178	-16.14228 3.054412
Race	3.912724	84.80681	0.05	0.963	-165.2257 173.0512
PovStat	-268.7148	87.50261	-3.07	0.003	-443.2297 -94.19983
TIME_V1SCAN	-.0012652	.0625412	-0.02	0.984	-.1259973 .1234668
w1BMI	7.191143	7.772028	0.93	0.358	-8.309367 22.69165
ICV_volum2	.0021238	.0003314	6.41	0.000	.0014628 .0027848
_cons	1053.758	653.2	1.61	0.111	-248.982 2356.499

587 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	80
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	72
DF adjustment:	Small sample	DF:	min	= 70.08
			avg	= 70.08
			max	= 70.08
Model F test:	Equal FMI	F(7, 70.1)	=	11.92
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	151.4361	81.57693	1.86	0.068	-11.26072 314.1328
Sex	0 (omitted)				
w1Age	-5.122732	4.794205	-1.07	0.289	-14.68428 4.438817
Race	-9.065466	84.48168	-0.11	0.915	-177.5555 159.4245
PovStat	-228.5708	87.16715	-2.62	0.011	-402.4167 -54.72492
TIME_V1SCAN	.0509158	.0623014	0.82	0.417	-.073338 .1751697
w1BMI	12.90531	7.742232	1.67	0.100	-2.535771 28.3464
ICV_volum2	.0024151	.0003302	7.31	0.000	.0017566 .0030736
_cons	532.0267	650.6958	0.82	0.416	-765.7191 1829.773

588 .

589 . //ANALYSIS C//

590 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fina

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	80
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	72
DF adjustment:	Small sample	DF:	min	= 70.08
			avg	= 70.08
			max	= 70.08
Model F test:	Equal FMI	F(7, 70.1)	=	0.53
Within VCE type:	OLS	Prob > F	=	0.8054

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-.4482625	.7790511	-0.58	0.567	-2.002 1.105475
Sex	0 (omitted)				
w1Age	-.0095657	.0457842	-0.21	0.835	-.1008774 .0817461
Race	1.072311	.8067912	1.33	0.188	-.5367508 2.681373
PovStat	.31445	.8324371	0.38	0.707	-.1.34576 1.97466
TIME_V1SCAN	-.0005293	.000595	-0.89	0.377	-.0017159 .0006573
w1BMI	-.0544798	.0739375	-0.74	0.464	-.2019406 .0929809
ICV_volum2	2.66e-07	3.15e-06	0.08	0.933	-6.02e-06 6.55e-06
_cons	6.969754	6.214077	1.12	0.266	-5.423583 19.36309

```

591 .
592 . save, replace
  file finaldata_imputed.dta saved

593 .
594 .
595 .
596 .
597 .
598 . ****FEMALES*****
599 .
600 . **Model 1**
601 .
602 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

603 .
604 . //ANALYSIS A//
605 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	99
Model	1.1760e+11	5	2.3519e+10	F(5, 93)	=	4.12
Residual	5.3048e+11	93	5.7041e+09	Prob > F	=	0.0020
				R-squared	=	0.1815
				Adj R-squared	=	0.1374
Total	6.4808e+11	98	6.6131e+09	Root MSE	=	75526

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	7585.132	17967.71	0.42	0.674	.0453553
Sex	0	(omitted)			.
w1Age	-2095.604	940.7563	-2.23	0.028	-.2430185
Race	-57881.1	16287.04	-3.55	0.001	-.3510437
PovStat	-24252.43	18360.53	-1.32	0.190	-.1441934
TIME_V1SCAN	-3.17302	13.26619	-0.24	0.811	-.0254888
_cons	1299674	61463.64	21.15	0.000	.

```

606 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

```

Source	SS	df	MS	Number of obs	=	99
Model	5.8702e+10	5	1.1740e+10	F(5, 93)	=	6.65
Residual	1.6426e+11	93	1.7663e+09	Prob > F	=	0.0000
Total	2.2297e+11	98	2.2752e+09	R-squared	=	0.2633
				Adj R-squared	=	0.2237
				Root MSE	=	42027

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	7379.722	9998.364	0.74	0.462	.0752315
Sex	0	(omitted)			.
w1Age	-1600.542	523.4959	-3.06	0.003	-.3164402
Race	-41785.84	9063.131	-4.61	0.000	-.4320639
PovStat	-9631.955	10216.96	-0.94	0.348	-.0976335
TIME_V1SCAN	-.9977816	7.382142	-0.14	0.893	-.0136649
_cons	758536.8	34202.23	22.18	0.000	.

607 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	1.2666e+10	5	2.5332e+09	F(5, 93)	=	1.87
Residual	1.2587e+11	93	1.3534e+09	Prob > F	=	0.1067
Total	1.3854e+11	98	1.4136e+09	R-squared	=	0.0914
				Adj R-squared	=	0.0426
				Root MSE	=	36789

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1729.796	8752.232	-0.20	0.844	-.0223713
Sex	0	(omitted)			.
w1Age	-856.5065	458.2508	-1.87	0.065	-.2148289
Race	-12952.05	7933.561	-1.63	0.106	-.1699006
PovStat	-14355.72	8943.58	-1.61	0.112	-.1846065
TIME_V1SCAN	-1.875992	6.46208	-0.29	0.772	-.0325941
_cons	514854.1	29939.49	17.20	0.000	.

608 .

609 .

610 . //ANALYSIS B//

611 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	2751798.23	6	458633.038	F(6, 92)	=	7.26
Residual	5808753.11	92	63138.6208	Prob > F	=	0.0000
Total	8560551.34	98	87352.5647	R-squared	=	0.3215
				Adj R-squared	=	0.2772
				Root MSE	=	251.27

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-92.33639	59.78123	-1.54	0.126	-.1519152
Sex	0	(omitted)			.
w1Age	-9.205804	3.137953	-2.93	0.004	-.2937345
Race	-144.2475	58.40604	-2.47	0.015	-.2407109
PovStat	-53.57567	61.52401	-0.87	0.386	-.0876437
TIME_V1SCAN	.0217571	.0441368	0.49	0.623	.0480885
ICV_volum2	.0010953	.0002898	3.78	0.000	.3562612
_cons	2738.557	463.7721	5.90	0.000	.

612 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	4332695.98	6	722115.996	F(6, 92)	=	9.85
Residual	6746576.95	92	73332.3581	Prob > F	=	0.0000
Total	11079272.9	98	113053.805	R-squared	=	0.3911
				Adj R-squared	=	0.3513
				Root MSE	=	270.8

Right_Hippocas~	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-86.723	64.42658	-1.35	0.182	-.1254174
Sex	0	(omitted)			.
w1Age	-6.193298	3.381791	-1.83	0.070	.1737043
Race	-138.5911	62.94453	-2.20	0.030	-.203291
PovStat	-20.5611	66.30479	-0.31	0.757	-.0295661
TIME_V1SCAN	.0425557	.0475665	0.89	0.373	.0826784
ICV_volum2	.0017407	.0003124	5.57	0.000	.4976537
_cons	1978.237	499.81	3.96	0.000	.

613 .
 614 . //ANALYSIS C//
 615 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	248.65835	6	41.4430583	F(6, 92)	=	2.33
Residual	1635.29352	92	17.7749296	Prob > F	=	0.0385
				R-squared	=	0.1320
				Adj R-squared	=	0.0754
Total	1883.95187	98	19.2239987	Root MSE	=	4.216

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1.820143	1.003047	-1.81	0.073	-.2018597
Sex	0	(omitted)			.
w1Age	.1053408	.0526505	2.00	0.048	.2265717
Race	1.231223	.979973	1.26	0.212	.1384969
PovStat	1.446987	1.032288	1.40	0.164	.1595636
TIME_V1SCAN	-.0008042	.0007406	-1.09	0.280	-.119816
ICV_volum2	6.23e-06	4.86e-06	1.28	0.203	.1365715
_cons	-8.95774	7.781459	-1.15	0.253	.

616 .
 617 .
 618 . **Model 2**
 619 .
 620 . use finaldata_imputed,clear
 621 .
 622 .
 623 . //ANALYSIS A//
 624 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	92
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test:	F(6, 90.1)	=	3.55
Within VCE type:	Prob > F	=	0.0033
Equal FMI			
OLS			

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	3803.524	18510.76	0.21	0.838	-32970.98	40578.03
Sex	0	(omitted)				
w1Age	-2100.344	942.0165	-2.23	0.028	-3971.807	-228.882
Race	-57524.55	16313.75	-3.53	0.001	-89934.35	-25114.76
PovStat	-25390.06	18431.41	-1.38	0.172	-62006.93	11226.81
TIME_V1SCAN	-1.543726	13.41553	-0.12	0.909	-28.19575	25.1083
w1BMI	952.9587	1097.135	0.87	0.387	-1226.67	3132.587
_cons	1270339	70202.53	18.10	0.000	1130870	1409807

625 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	5.79
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	4545.199	10266.1	0.44	0.659	-15850	24940.4
Sex	0	(omitted)				
w1Age	-1604.096	522.4439	-3.07	0.003	-2642.012	-566.1796
Race	-41518.59	9047.63	-4.59	0.000	-59493.12	-23544.07
PovStat	-10484.67	10222.09	-1.03	0.308	-30792.44	9823.107
TIME_V1SCAN	.2234631	7.440272	0.03	0.976	-14.55779	15.00472
w1BMI	714.2948	608.4726	1.17	0.244	-494.5307	1923.12
_cons	736548.7	38934.43	18.92	0.000	659199.4	813898

626 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	1.63
Within VCE type: OLS	Prob > F	=	0.1475

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-3206.145	9029.971	-0.36	0.723	-21145.59	14733.3
Sex	0	(omitted)				
w1Age	-858.3571	459.5371	-1.87	0.065	-1771.299	54.58483
Race	-12812.85	7958.217	-1.61	0.111	-28623.09	2997.381
PovStat	-14799.85	8991.263	-1.65	0.103	-32662.4	3062.692
TIME_V1SCAN	-1.239911	6.544398	-0.19	0.850	-14.24138	11.76155
w1BMI	372.0376	535.2072	0.70	0.489	-691.2348	1435.31
_cons	503401.7	34246.39	14.70	0.000	435366	571437.5

627 .

628 .

629 .

630 . //ANALYSIS B//

631 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 99
Average RVI	= 0.0000
Largest FMI	= 0.0000
Complete DF	= 91
DF adjustment: Small sample	DF: min = 89.06
	avg = 89.06
	max = 89.06
Model F test: Equal FMI	F(7, 89.1) = 6.32
Within VCE type: OLS	Prob > F = 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-104.8733	61.59207	-1.70	0.092	-227.2542 17.50764
Sex	0 (omitted)				
w1Age	-9.238304	3.142476	-2.94	0.004	-15.48227 -2.994333
Race	-144.6847	58.48822	-2.47	0.015	-260.8984 -28.47102
PovStat	-57.90569	61.81125	-0.94	0.351	-180.7221 64.91074
TIME_V1SCAN	.0271689	.0446377	0.61	0.544	-.0615244 .1158622
w1BMI	3.169729	3.663805	0.87	0.389	-4.110101 10.44956
ICV_volum2	.0010738	.0002913	3.69	0.000	.0004949 .0016526
_cons	2671.984	470.7394	5.68	0.000	1736.644 3607.323

632 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 99
Average RVI	= 0.0000
Largest FMI	= 0.0000
Complete DF	= 91
DF adjustment: Small sample	DF: min = 89.06
	avg = 89.06
	max = 89.06
Model F test: Equal FMI	F(7, 89.1) = 8.39
Within VCE type: OLS	Prob > F = 0.0000

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-93.12808	66.58944	-1.40	0.165	-225.4386 39.18241
Sex	0 (omitted)				
w1Age	-6.209902	3.397445	-1.83	0.071	-12.96049 .5406825
Race	-138.8145	63.23375	-2.20	0.031	-264.4573 -13.17158
PovStat	-22.7733	66.8264	-0.34	0.734	-155.5546 110.008
TIME_V1SCAN	.0453205	.0482595	0.94	0.350	-.050569 .1412101
w1BMI	1.61941	3.961073	0.41	0.684	-6.25108 9.489901
ICV_volum2	.0017296	.0003149	5.49	0.000	.0011038 .0023554
_cons	1944.225	508.9335	3.82	0.000	932.9953 2955.455

633 .

634 . //ANALYSIS C//

```
635 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sample_final==1

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     99
Average RVI     =  0.0000
Largest FMI     =  0.0000
Complete DF      =     91
DF adjustment:  Small sample
DF:   min        =  89.06
      avg        =  89.06
      max        =  89.06
Model F test:    Equal FMI      F(  7,  89.1)  =  2.38
Within VCE type: OLS          Prob > F  =  0.0282
```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.196262	1.02405	-2.14	0.035	-4.231007 -.161516
Sex	0 (omitted)				
w1Age	.1043658	.0522478	2.00	0.049	.0005515 .2081801
Race	1.218105	.9724444	1.25	0.214	-.714102 3.150313
PovStat	1.317083	1.027694	1.28	0.203	-.7249035 3.359069
TIME_V1SCAN	-.0006418	.0007422	-0.86	0.389	-.0021165 .0008328
w1BMI	.0950949	.0609156	1.56	0.122	-.0259419 .2161318
ICV_volM2	5.58e-06	4.84e-06	1.15	0.252	-4.04e-06 .0000152
_cons	-10.955	7.826667	-1.40	0.165	-26.50627 4.596269

636 .

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

638 .

639 .

640 .

641 . //INTERACTION BY Sex//

642 . use finaldata_imputed,clear

643 .

644 .

645 . //ANALYSIS A//

646 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

```
Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     179
Average RVI     =  0.0000
Largest FMI     =  0.0000
Complete DF      =     170
DF adjustment:  Small sample
DF:   min        =  168.03
      avg        =  168.03
      max        =  168.03
Model F test:    Equal FMI      F(  8, 168.0)  =  17.72
Within VCE type: OLS          Prob > F  =  0.0000
```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4950.812	20691.35	0.24	0.811	-35897.68 45799.3
Sex					
Men	137865.2	16845.75	8.18	0.000	104608.6 171121.8
Sex#c.NFLw1w3tracklow					
Men	1600.679	28955.93	0.06	0.956	-55563.6 58764.96
Sex	0 (omitted)				
w1Age	-2140.605	841.3027	-2.54	0.012	-3801.49 -479.7204
Race	-71473.37	14138.84	-5.06	0.000	-99386.03 -43560.71
PovStat	-3936.706	15974.73	-0.25	0.806	-35473.74 27600.33
TIME_V1SCAN	-20.9478	11.43108	-1.83	0.069	-43.51483 1.619231
w1BMI	637.9058	1095.704	0.58	0.561	-1525.214 2801.025
_cons	1310357	63319.75	20.69	0.000	1185352 1435362

647 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	20.47
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	3190.015	11044.36	0.29	0.773	-18613.56 24993.59
Sex					
Men	68339.9	8991.704	7.60	0.000	50588.64 86091.16
Sex#c.NFLw1w3tracklow					
Men	10538.65	15455.72	0.68	0.496	-19973.75 41051.05
Sex	0 (omitted)				
w1Age	-1924.035	449.0596	-4.28	0.000	-2810.561 -1037.51
Race	-50391.9	7546.848	-6.68	0.000	-65290.76 -35493.05
PovStat	-2993.431	8526.784	-0.35	0.726	-19826.86 13839.99
TIME_V1SCAN	-7.686501	6.101531	-1.26	0.210	-19.73204 4.359034
w1BMI	598.1796	584.8506	1.02	0.308	-556.422 1752.781
_cons	773750.6	33797.99	22.89	0.000	707027.2 840474

648 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	168.03
		avg	168.03
		max	168.03
Model F test: Equal FMI	F(8, 168.0)	=	11.58
Within VCE type: OLS	Prob > F	=	0.0000

	WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow		-571.8422	10091.87	-0.06	0.955	-20495.04 19351.36
Sex						
Men		56882.83	8216.246	6.92	0.000	40662.46 73103.19
Sex#c.NFLw1w3tracklow						
Men		-1166.555	14122.79	-0.08	0.934	-29047.52 26714.41
Sex		0 (omitted)				
w1Age		-682.7254	410.332	-1.66	0.098	-1492.796 127.3446
Race		-18552	6895.996	-2.69	0.008	-32165.96 -4938.052
PovStat		-5164.521	7791.421	-0.66	0.508	-20546.21 10217.16
TIME_V1SCAN		-11.59937	5.575326	-2.08	0.039	-22.60608 -.5926604
w1BMI		134.4326	534.4122	0.25	0.802	-920.5944 1189.46
_cons		516839.8	30883.2	16.74	0.000	455870.7 577808.9

649 .

650 .

651 .

652 . //ANALYSIS B//

653 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if sam

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	167.03
		avg	167.03
		max	167.03
Model F test: Equal FMI	F(9, 167.0)	=	15.87
Within VCE type: OLS	Prob > F	=	0.0000

	Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow		-87.68975	67.5549	-1.30	0.196	-221.0612 45.68173
Sex						
Men		-72.14159	68.21256	-1.06	0.292	-206.8115 62.52829
Sex#c.NFLw1w3tracklow						
Men		143.6361	94.5398	1.52	0.131	-43.01084 330.283
Sex		0 (omitted)				
w1Age		-7.7306	2.749021	-2.81	0.006	-13.1579 -2.303296
Race		-82.26267	50.40736	-1.63	0.105	-181.7803 17.25496
PovStat		-132.5551	52.17004	-2.54	0.012	-235.5528 -29.5575

TIME_V1SCAN	.0182831	.0375317	0.49	0.627	-.0558145	.0923806
w1BMI	4.483321	3.581213	1.25	0.212	-2.586953	11.5536
ICV_volum2	.0016482	.0002205	7.47	0.000	.0012128	.0020836
_cons	1862.857	377.5746	4.93	0.000	1117.424	2608.291

654 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sa

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0000
 Largest FMI = 0.0000
 Complete DF = 169
 DF adjustment: Small sample
 DF: min = 167.03
 avg = 167.03
 max = 167.03
 Model F test: Equal FMI
 Within VCE type: OLS
 F(9, 167.0) = 19.23
 Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-89.42089	69.13106	-1.29	0.198	-225.9041 47.06236	
Sex Men	-175.7221	69.80407	-2.52	0.013	-313.534 -37.91013	
Sex#c.NFLw1w3tracklow Men	222.9535	96.74557	2.30	0.022	31.95185 413.9552	
Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 _cons	0 (omitted) -5.165113 -84.65915 -105.3572 .0547611 5.09717 .002081 1363.534	2.81316 51.58344 53.38725 .0384073 3.664769 .0002257 386.384	-1.84 -1.64 -1.97 1.43 1.39 9.22 3.53	0.068 0.103 0.050 0.156 0.166 0.000 0.001	-10.71904 -186.4987 -210.7579 -.0210653 -2.138066 .0016354 600.7087	.3888186 17.18039 .0435679 .1305874 12.3324 .0025266 2126.36

655 .

656 . //ANALYSIS C//

657 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if samp

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0000
 Largest FMI = 0.0000
 Complete DF = 169
 DF adjustment: Small sample
 DF: min = 167.03
 avg = 167.03
 max = 167.03
 Model F test: Equal FMI
 Within VCE type: OLS
 F(9, 167.0) = 2.07
 Prob > F = 0.0351

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.47982	.8673255	-2.86	0.005	-4.192152 - .7674867
Sex					
Men	-.4886896	.8757691	-0.56	0.578	-2.217692 1.240313
Sex#c.NFLw1w3tracklow					
Men	2.597569	1.21378	2.14	0.034	.2012426 4.993896
Sex	0 (omitted)				
w1Age	.0454619	.0352942	1.29	0.199	-.0242183 .1151421
Race	1.124653	.6471712	1.74	0.084	-.1530365 2.402342
PovStat	.8428859	.6698019	1.26	0.210	-.4794826 2.165254
TIME_V1SCAN	-.00056	.0004819	-1.16	0.247	-.0015113 .0003914
w1BMI	.0503291	.0459786	1.09	0.275	-.0404449 .1411031
ICV_volum2	2.32e-06	2.83e-06	0.82	0.414	-3.27e-06 7.91e-06
_cons	-1.977951	4.847613	-0.41	0.684	-11.54844 7.592536

```

658 .
659 . save, replace
      file finaldata_imputed.dta saved

660 .
661 .
662 . *****TABLE S3: NFLw1w3tracklow, MODELS 3-6*****
663 .
664 . *****MODEL 3: MODEL 2+w1dxDiabetes w1Glucose*****
665 .
666 . //Overall// 
667 .
668 . use finaldata_imputed,clear

669 .
670 .
671 . //ANALYSIS A// 
672 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sam

```

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	179
Average RVI	=	0.0050
Largest FMI	=	0.0495
Complete DF	=	169
DF adjustment: Small sample	DF:	min = 145.86
		avg = 164.14
		max = 167.03
Model F test:	Equal FMI	F(9, 167.0) = 15.61
Within VCE type:	OLS	Prob > F = 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5979.392	15557.55	0.38	0.701	-24735.39 36694.18
Sex	137751.3	13934.83	9.89	0.000	110240.2 165262.5
w1Age	-2141.897	853.1054	-2.51	0.013	-3826.168 -457.6251
Race	-70807.85	14281.19	-4.96	0.000	-99002.83 -42612.86
PovStat	-4300.164	16036.97	-0.27	0.789	-35961.44 27361.12
TIME_V1SCAN	-20.86056	11.55474	-1.81	0.073	-43.67282 1.951696
w1BMI	576.732	1087.746	0.53	0.597	-1570.782 2724.246
w1dxDiabetes	-2030.481	13976.96	-0.15	0.885	-29654.01 25593.05
w1Glucose	119.2896	326.6072	0.37	0.715	-525.6922 764.2714
_cons	1162640	73846.3	15.74	0.000	1016840 1308441

673 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fina

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0017
		Largest FMI	=	0.0165
		Complete DF	=	169
DF adjustment:	Small sample	DF:	min	= 162.63
			avg	= 166.38
			max	= 167.03
Model F test:	Equal FMI	F(9, 167.0)	=	18.12
Within VCE type:	OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	8609.891	8300.771	1.04	0.301	-7778.07 24997.85
Sex	71765.18	7434.56	9.65	0.000	57087.33 86443.03
w1Age	-1865.35	455.0235	-4.10	0.000	-2763.691 -967.0091
Race	-49773.85	7619.272	-6.53	0.000	-64816.37 -34731.32
PovStat	-3328.311	8556.306	-0.39	0.698	-20220.76 13564.13
TIME_V1SCAN	-8.241936	6.163452	-1.34	0.183	-20.41026 3.926384
w1BMI	506.3588	580.2822	0.87	0.384	-639.2785 1651.996
w1dxDiabetes	-5596.246	7336.182	-0.76	0.447	-20082.69 8890.202
w1Glucose	142.5336	173.0687	0.82	0.411	-199.1702 484.2373
_cons	688643	39324.37	17.51	0.000	611004.6 766281.4

674 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fina

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0078
		Largest FMI	=	0.0760
		Complete DF	=	169
DF adjustment:	Small sample	DF:	min	= 128.63
			avg	= 161.77
			max	= 167.03
Model F test:	Equal FMI	F(9, 166.9)	=	10.18
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1121.271	7587.916	-0.15	0.883	-16101.87 13859.33
Sex	56024.52	6796.085	8.24	0.000	42607.19 69441.85
w1Age	-707.6766	416.199	-1.70	0.091	-1529.376 114.0225
Race	-18369.03	6965.059	-2.64	0.009	-32119.97 -4618.088
PovStat	-5346.969	7821.335	-0.68	0.495	-20788.38 10094.44
TIME_V1SCAN	-11.3048	5.636305	-2.01	0.047	-22.43246 -.1771453
w1BMI	104.5909	530.5347	0.20	0.844	-942.8341 1152.016
w1dxDiabetes	1206.173	6907.495	0.17	0.862	-12460.85 14873.2
w1Glucose	24.70008	160.2141	0.15	0.878	-291.7727 341.1729
_cons	459748.1	36071.76	12.75	0.000	388525.9 530970.3

675 .
 676 .
 677 . //ANALYSIS B//
 678 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0042	
Largest FMI	=	0.0415	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 149.73
		avg	= 164.05
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	13.93
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-18.15385	50.99222	-0.36	0.722	-118.8307 82.52296
Sex	-29.51753	60.73652	-0.49	0.628	-149.433 90.39799
w1Age	-7.686143	2.79904	-2.75	0.007	-13.21248 -2.159804
Race	-80.69565	51.01903	-1.58	0.116	-181.4255 20.03419
PovStat	-139.0014	52.58028	-2.64	0.009	-242.8136 -35.1893
TIME_V1SCAN	.0184534	.0380621	0.48	0.628	-.0566949 .0936018
w1BMI	2.526399	3.567947	0.71	0.480	-4.518019 9.570818
w1dxDiabetes	3.341855	45.64233	0.07	0.942	-86.84438 93.52809
w1Glucose	.8139778	1.068938	0.76	0.447	-1.29693 2.924886
ICV_volum2	.0016373	.0002221	7.37	0.000	.0011988 .0020758
_cons	1863.73	368.4151	5.06	0.000	1136.334 2591.126

679 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0002	
Largest FMI	=	0.0021	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 165.68
		avg	= 165.99
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	16.77
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	18.73614	52.33754	0.36	0.721	-84.59673 122.069
Sex	-110.8233	62.33926	-1.78	0.077	-233.9032 12.25647
w1Age	-5.150297	2.87171	-1.79	0.075	-10.82007 .5194795
Race	-81.93733	52.36128	-1.56	0.120	-185.3171 21.44242
PovStat	-115.842	53.9699	-2.15	0.033	-222.3977 -9.28626
TIME_V1SCAN	.0557104	.0390585	1.43	0.156	-.0214049 .1328257
w1BMI	1.941284	3.66141	0.53	0.597	-5.287639 9.170206
w1dxDiabetes	8.124768	45.94303	0.18	0.860	-82.58448 98.83402
w1Glucose	1.338528	1.088399	1.23	0.221	-.810372 3.487428
ICV_volum2	.0020635	.0002279	9.05	0.000	.0016134 .0025135
_cons	1427.468	377.7333	3.78	0.000	681.6882 2173.249

680 .

681 . //ANALYSIS C//

682 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0001
	Largest FMI	=	0.0008
	Complete DF	=	168
DF adjustment:	Small sample	DF:	min = 165.93
			avg = 166.01
			max = 166.03
Model F test:	Equal FMI	F(10, 166.0)	= 1.40
Within VCE type:	OLS	Prob > F	= 0.1825

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.234448	.6604331	-1.87	0.063	-2.538378 .0694822
Sex	.440901	.7866774	0.56	0.576	-1.112281 1.994083
w1Age	.0548782	.0362355	1.51	0.132	-.0166636 .12642
Race	1.099159	.6607217	1.66	0.098	-.205341 2.403658
PovStat	.8087229	.6810148	1.19	0.237	-.5358422 2.153288
TIME_V1SCAN	-.0006576	.0004929	-1.33	0.184	-.0016307 .0003155
w1BMI	.0313614	.0462023	0.68	0.498	-.0598584 .1225811
w1dxDiabetes	-.3532362	.5793338	-0.61	0.543	-1.497052 .7905795
w1Glucose	.0029159	.0137298	0.21	0.832	-.0241916 .0300234
ICV_volum2	2.31e-06	2.88e-06	0.80	0.424	-3.37e-06 7.99e-06
_cons	-2.640471	4.766168	-0.55	0.580	-12.05058 6.76964

683 .

684 . save, replace
 file finaldata_imputed.dta saved

685 .

686 .

687 . //Males//

688 .

689 . use finaldata_imputed,clear

690 .

691 .

692 . //ANALYSIS A//

693 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sam

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0093
	Largest FMI	=	0.0805
	Complete DF	=	71
DF adjustment:	Small sample	DF:	min = 58.58
			avg = 67.52
			max = 69.06
Model F test:	Equal FMI	F(8, 69.0)	= 2.83
Within VCE type:	OLS	Prob > F	= 0.0088

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5126.259	26601.41	0.19	0.848	-47941.27 58193.79
Sex	0	(omitted)			
w1Age	-2521.061	1562.579	-1.61	0.111	-5638.294 596.1718
Race	-90263.68	24703.33	-3.65	0.000	-139545.2 -40982.11
PovStat	17882.04	28448.18	0.63	0.532	-38869.96 74634.03
TIME_V1SCAN	-38.66469	20.75853	-1.86	0.067	-80.0777 2.748329
w1BMI	471.8832	2622.292	0.18	0.858	-4759.583 5703.35
w1dxDiabetes	18106.71	23969.32	0.76	0.453	-29863.03 66076.46
w1Glucose	-209.871	461.0203	-0.46	0.650	-1130.269 710.5269
_cons	1518999	123808.9	12.27	0.000	1271999 1765999

694 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fin

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0031
Largest FMI	=	0.0286
Complete DF	=	71
DF adjustment: Small sample	DF:	min = 66.43
		avg = 68.68
		max = 69.08
Model F test: Equal FMI	F(8, 69.1)	= 4.75
Within VCE type: OLS	Prob > F	= 0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	11147.08	13869.45	0.80	0.424	-16521.16 38815.33
Sex	0	(omitted)			
w1Age	-2534.26	814.559	-3.11	0.003	-4159.23 -909.2901
Race	-62628.97	12876.36	-4.86	0.000	-88316.14 -36941.81
PovStat	4071.759	14831.95	0.27	0.784	-25516.73 33660.25
TIME_V1SCAN	-15.7256	10.81688	-1.45	0.151	-37.30458 5.853376
w1BMI	872.9169	1366.318	0.64	0.525	-1852.806 3598.64
w1dxDiabetes	3727.4	12183.84	0.31	0.761	-20595.5 28050.3
w1Glucose	-29.26823	238.0624	-0.12	0.903	-504.2703 445.7339
_cons	890201.4	64493.91	13.80	0.000	761540.2 1018862

695 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fin

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0144
Largest FMI	=	0.1204
Complete DF	=	71
DF adjustment: Small sample	DF:	min = 51.53
		avg = 66.44
		max = 69.05
Model F test: Equal FMI	F(8, 69.0)	= 1.70
Within VCE type: OLS	Prob > F	= 0.1145

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1099.074	12923.42	-0.09	0.932	-26880.29 24682.15
Sex	0	(omitted)			
w1Age	-545.4277	759.2896	-0.72	0.475	-2060.175 969.3191
Race	-25389.39	12004.24	-2.12	0.038	-49337.41 -1441.381
PovStat	3711.603	13819.84	0.27	0.789	-23857.99 31281.2
TIME_V1SCAN	-20.76676	10.08879	-2.06	0.043	-40.89416 -.6393571
w1BMI	-430.992	1274.512	-0.34	0.736	-2973.695 2111.711
w1dxDiabetes	11878.14	11877.97	1.00	0.322	-11961.87 35718.16
w1Glucose	-113.1931	225.7638	-0.50	0.618	-564.2092 337.8231
_cons	605495.4	60198.35	10.06	0.000	485394.5 725596.4

696 .
 697 .
 698 . //ANALYSIS B//
 699 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0086	
Largest FMI	=	0.0744	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 58.82
		avg	= 66.79
		max	= 68.07
Model F test: Equal FMI	F(9, 68.0)	=	7.57
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	77.22251	82.55294	0.94	0.353	-87.50653 241.9516
Sex	0	(omitted)			
w1Age	-6.491564	4.853776	-1.34	0.186	-16.17711 3.193977
Race	7.835726	85.66185	0.09	0.927	-163.0969 178.7683
PovStat	-263.6436	88.4544	-2.98	0.004	-440.1492 -87.13798
TIME_V1SCAN	.0195228	.0654977	0.30	0.767	-.1111755 .1502211
w1BMI	4.614374	8.13556	0.57	0.572	-11.62008 20.84883
w1dxDiabetes	55.00909	75.03783	0.73	0.466	-95.151 205.1692
w1Glucose	.366878	1.439285	0.25	0.800	-2.507251 3.241006
ICV_volM2	.0020926	.0003374	6.20	0.000	.0014193 .002766
_cons	1048.842	692.1485	1.52	0.134	-332.4465 2430.131

700 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0014	
Largest FMI	=	0.0102	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 67.37
		avg	= 67.95
		max	= 68.08
Model F test: Equal FMI	F(9, 68.1)	=	9.92
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	164.3904	80.82426	2.03	0.046	3.110282 325.6705
Sex	0	(omitted)			
w1Age	-4.796791	4.750022	-1.01	0.316	-14.27517 4.681587
Race	1.58986	83.86008	0.02	0.985	-165.7474 168.9271
PovStat	-224.94	86.57702	-2.60	0.011	-397.6982 -52.1818
TIME_V1SCAN	.0863677	.0640878	1.35	0.182	-.0415149 .2142503
w1BMI	8.826228	7.95924	1.11	0.271	-7.055998 24.70845
w1dxDiabetes	58.02803	71.18337	0.82	0.418	-84.04035 200.0964
w1Glucose	1.35505	1.392468	0.97	0.334	-1.423745 4.133844
ICV_volM2	.0023916	.0003301	7.25	0.000	.001733 .0030502
_cons	402.5004	676.1522	0.60	0.554	-946.7476 1751.748

701 .
 702 . //ANALYSIS C//
 703 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	80
	Average RVI	=	0.0007
	Largest FMI	=	0.0064
	Complete DF	=	70
DF adjustment: Small sample	DF:	min	= 67.68
		avg	= 68.02
		max	= 68.08
Model F test: Equal FMI	F(9, 68.1)	=	0.43
Within VCE type: OLS	Prob > F	=	0.9159

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-.4719154	.7918337	-0.60	0.553	-2.051963 1.108133
Sex	0	(omitted)			
w1Age	-.0092111	.0465369	-0.20	0.844	-.1020721 .0836499
Race	1.072715	.8216862	1.31	0.196	-.5669031 2.712333
PovStat	.2824649	.8483925	0.33	0.740	-1.410445 1.975375
TIME_V1SCAN	-.000596	.000628	-0.95	0.346	-.0018492 .0006572
w1BMI	-.0452458	.077978	-0.58	0.564	-.2008456 .1103541
w1dxDiabetes	-.2734386	.6962444	-0.39	0.696	-1.662893 1.116016
w1Glucose	.0008531	.0136274	0.06	0.950	-.0263403 .0280465
ICV_volM2	4.37e-07	3.23e-06	0.14	0.893	-6.01e-06 6.89e-06
_cons	6.668	6.62168	1.01	0.318	-6.545146 19.88115

704 .
 705 . save, replace
 file finaldata_imputed.dta saved
 706 .
 707 .

```

708 .
709 . //Females//
710 .
711 . use finaldata_imputed,clear

712 .
713 .
714 . //ANALYSIS A//
715 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sam

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 88.06
		avg	= 88.06
		max	= 88.06
Model F test: Equal FMI	F(8, 88.1)	=	2.91
Within VCE type: OLS	Prob > F	=	0.0063

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	7045.95	18658.17	0.38	0.707	-30032.86 44124.75
Sex	0	(omitted)			
w1Age	-1893.083	974.2925	-1.94	0.055	-3829.265 43.09848
Race	-52941.1	16811.2	-3.15	0.002	-86349.49 -19532.7
PovStat	-22419.13	18583.53	-1.21	0.231	-59349.61 14511.34
TIME_V1SCAN	-5.457682	13.78415	-0.40	0.693	-32.85051 21.93515
w1BMI	915.5498	1122.773	0.82	0.417	-1315.703 3146.803
w1dxDiabetes	-24906.28	17659.61	-1.41	0.162	-60000.68 10188.12
w1Glucose	537.8144	526.0541	1.02	0.309	-507.597 1583.226
_cons	1213643	82698.88	14.68	0.000	1049298 1377988

```

716 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_fin

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	90	
DF adjustment: Small sample	DF:	min	= 88.06
		avg	= 88.06
		max	= 88.06
Model F test: Equal FMI	F(8, 88.1)	=	4.81
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	6835.608	10278.3	0.67	0.508	-13590.15 27261.37
Sex	0	(omitted)			
w1Age	-1452.036	536.7127	-2.71	0.008	-2518.629 -385.4432
Race	-38377.11	9260.86	-4.14	0.000	-56780.94 -19973.29
PovStat	-8363.009	10237.19	-0.82	0.416	-28707.06 11981.04
TIME_V1SCAN	-2.477004	7.593335	-0.33	0.745	-17.56701 12.613
w1BMI	695.6549	618.5067	1.12	0.264	-533.4847 1924.795
w1dxDiabetes	-17503.19	9728.222	-1.80	0.075	-36835.79 1829.408
w1Glucose	366.1093	289.7897	1.26	0.210	-209.7809 941.9995
_cons	697274.9	45556.68	15.31	0.000	606741.5 787808.3

717 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sample_final

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	90
DF adjustment:	Small sample	DF:	
		min	= 88.06
		avg	= 88.06
		max	= 88.06
Model F test:	Equal FMI	F(8, 88.1)	= 1.36
Within VCE type:	OLS	Prob > F	= 0.2246

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1959.71	9141.684	-0.21	0.831	-20126.7 16207.28
Sex	0	(omitted)			
w1Age	-764.2183	477.3607	-1.60	0.113	-1712.863 184.426
Race	-11297.09	8236.754	-1.37	0.174	-27665.74 5071.558
PovStat	-13598.85	9105.113	-1.49	0.139	-31693.16 4495.468
TIME_V1SCAN	-2.579963	6.753632	-0.38	0.703	-16.00125 10.84132
w1BMI	377.5773	550.1096	0.69	0.494	-715.6388 1470.793
w1dxDiabetes	-9343.309	8652.434	-1.08	0.283	-26538.03 7851.409
w1Glucose	171.4437	257.7435	0.67	0.508	-340.762 683.6495
_cons	483591.1	40518.83	11.93	0.000	403069.3 564112.9

718 .

719 .

720 . //ANALYSIS B//

721 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	89
DF adjustment:	Small sample	DF:	
		min	= 87.07
		avg	= 87.07
		max	= 87.07
Model F test:	Equal FMI	F(9, 87.1)	= 5.28
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-92.82907	61.78658	-1.50	0.137	-215.6353 29.97714
Sex	0	(omitted)			
w1Age	-8.744235	3.231832	-2.71	0.008	-15.16778 -2.320687
Race	-130.1189	59.05899	-2.20	0.030	-247.5038 -12.73402
PovStat	-49.89647	61.92086	-0.81	0.423	-172.9696 73.17663
TIME_V1SCAN	.0099993	.0456668	0.22	0.827	-.0807674 .100766
w1BMI	2.817858	3.726582	0.76	0.452	-4.589049 10.22477
w1dxDiabetes	-97.61851	59.28926	-1.65	0.103	-215.4611 20.22407
w1Glucose	2.570979	1.765453	1.46	0.149	-.9380132 6.079972
ICV_volum2	.0009867	.0002946	3.35	0.001	.0004012 .0015722
_cons	2549.611	474.3892	5.37	0.000	1606.721 3492.501

722 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment:	Small sample	DF:	min	= 87.07
			avg	= 87.07
			max	= 87.07
Model F test:	Equal FMI	F(9, 87.1)	=	6.53
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-86.3719	67.54887	-1.28	0.204	-220.6312 47.88737
Sex	0	(omitted)			
w1Age	-5.999592	3.533237	-1.70	0.093	-13.02221 1.023024
Race	-129.7493	64.5669	-2.01	0.048	-258.0817 -1.416943
PovStat	-18.61752	67.69567	-0.28	0.784	-153.1686 115.9335
TIME_V1SCAN	.0349462	.0499257	0.70	0.486	-.0642855 .134178
w1BMI	1.335655	4.074128	0.33	0.744	-6.76203 9.43334
w1dxDiabetes	-55.85009	64.81865	-0.86	0.391	-184.6828 72.98264
w1Glucose	1.601902	1.930102	0.83	0.409	-2.234343 5.438148
ICV_volum2	.0016778	.000322	5.21	0.000	.0010378 .0023179
_cons	1870.695	518.6313	3.61	0.001	839.8705 2901.52

723 .

724 . //ANALYSIS C//

725 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose I

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0000
		Largest FMI	=	0.0000
		Complete DF	=	89
DF adjustment:	Small sample	DF:	min	= 87.07
			avg	= 87.07
			max	= 87.07
Model F test:	Equal FMI	F(9, 87.1)	=	1.82
Within VCE type:	OLS	Prob > F	=	0.0762

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.186551	1.043239	-2.10	0.039	-4.260079 -.1130235
Sex	0	(omitted)			
w1Age	.1075975	.054568	1.97	0.052	-.0008612 .2160562
Race	1.191928	.9971846	1.20	0.235	-.7900636 3.173919
PovStat	1.337825	1.045506	1.28	0.204	-.7402093 3.415859
TIME_V1SCAN	-.0006242	.0007711	-0.81	0.420	-.0021567 .0009084
w1BMI	.0984729	.0629217	1.57	0.121	-.0265894 .2235352
w1dxDiabetes	-.0324428	1.001073	-0.03	0.974	-2.022162 1.957276
w1Glucose	-.0046981	.0298089	-0.16	0.875	-.0639459 .0545497
ICV_volum2	5.64e-06	4.97e-06	1.13	0.260	-4.25e-06 .0000155
_cons	-10.84657	8.009849	-1.35	0.179	-26.76684 5.073706

```

726 .
727 . save, replace
    file finaldata_imputed.dta saved

728 .
729 .
730 . //INTERACTION BY Sex//
731 .
732 .
733 .
734 . //ANALYSIS A//
735 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0046	
Largest FMI	=	0.0496	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 144.99
		avg	= 163.40
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	13.97
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	5360.801	20894.01	0.26	0.798	-35891.5	46613.1
Sex						
Men	137306.3	17190.51	7.99	0.000	103366	171246.7
Sex#c.NFLw1w3tracklow						
Men	1300.203	29210.22	0.04	0.965	-56371.33	58971.74
Sex	0 (omitted)					
w1Age	-2145.129	858.7748	-2.50	0.013	-3840.669	-449.5882
Race	-70791.51	14327.89	-4.94	0.000	-99079.92	-42503.09
PovStat	-4276.129	16093.62	-0.27	0.791	-36050.65	27498.39
TIME_V1SCAN	-20.82838	11.61201	-1.79	0.075	-43.75473	2.097962
w1BMI	588.1573	1120.48	0.52	0.600	-1624.075	2800.389
w1dxDiabetes	-1983.826	14062.9	-0.14	0.888	-29778.6	25810.94
w1Glucose	118.6511	327.9345	0.36	0.718	-528.9822	766.2844
_cons	1300358	70764.95	18.38	0.000	1160635	1440082

```

736 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if sam

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0015	
Largest FMI	=	0.0158	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 161.93
		avg	= 165.48
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	16.29
Within VCE type: OLS	Prob > F	=	0.0000

	GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	NFLw1w3tracklow	3997.716	11133.43	0.36	0.720	-17983.63 25979.07
	Sex					
	Men	68444.48	9160.146	7.47	0.000	50359.03 86529.92
	Sex#c.NFLw1w3tracklow					
	Men	9696.612	15565.57	0.62	0.534	-21035.42 40428.64
	Sex	0 (omitted)				
	w1Age	-1889.518	457.5035	-4.13	0.000	-2792.795 -986.2411
	Race	-49654.13	7635.334	-6.50	0.000	-64729.03 -34579.24
	PovStat	-3148.469	8576.683	-0.37	0.714	-20081.89 13784.95
	TIME_V1SCAN	-8.001315	6.186765	-1.29	0.198	-20.2162 4.213569
	w1BMI	591.3913	597.0733	0.99	0.323	-587.4459 1770.229
	w1dxDiabetes	-5240.001	7369.739	-0.71	0.478	-19793.19 9313.185
	w1Glucose	137.6568	173.5408	0.79	0.429	-204.9932 480.3068
	_cons	760176.4	37637	20.20	0.000	685866.2 834486.5

737 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Glucose if samp

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0072	
Largest FMI	=	0.0764	
Complete DF	=	168	
DF adjustment:	Small sample	DF:	min = 127.74
			avg = 161.23
			max = 166.03
Model F test:	Equal FMI	F(10, 165.9)	= 9.12
Within VCE type:	OLS	Prob > F	= 0.0000

	WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	NFLw1w3tracklow	-664.3658	10191.32	-0.07	0.948	-20785.74 19457.01
	Sex					
	Men	56353.71	8384.129	6.72	0.000	39800.36 72907.06
	Sex#c.NFLw1w3tracklow					
	Men	-960.7929	14246.46	-0.07	0.946	-29088.47 27166.88
	Sex	0 (omitted)				
	w1Age	-705.2774	418.9709	-1.68	0.094	-1532.486 121.9316
	Race	-18380.71	6987.795	-2.63	0.009	-32177.14 -4584.282
	PovStat	-5364.844	7848.884	-0.68	0.495	-20861.33 10131.64
	TIME_V1SCAN	-11.3287	5.664272	-2.00	0.047	-22.51207 -.1453252
	w1BMI	96.17897	546.4828	0.18	0.861	-982.7768 1175.135
	w1dxDiabetes	1170.248	6950.84	0.17	0.867	-12583.44 14923.94
	w1Glucose	25.19184	160.8749	0.16	0.876	-292.6026 342.9863
	_cons	515794.3	34569.44	14.92	0.000	447535.2 584053.3

738 .

739 .

740 . //ANALYSIS B//

741 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1G

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0035
Largest FMI	= 0.0380
Complete DF	= 167
DF adjustment: Small sample	DF: min = 150.85 avg = 163.44 max = 165.03
Model F test: Equal FMI	F(11, 165.0) = 12.98
Within VCE type: OLS	Prob > F = 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-87.40433	68.00727	-1.29	0.201	-221.6811 46.87244
Sex					
Men	-79.8959	68.86206	-1.16	0.248	-215.8602 56.06845
Sex#c.NFLw1w3tracklow					
Men	145.5914	95.06642	1.53	0.128	-42.11205 333.2949
Sex	0 (omitted)				
w1Age	-8.047413	2.797903	-2.88	0.005	-13.57175 -2.523073
Race	-78.63651	50.83235	-1.55	0.124	-179.0022 21.72919
PovStat	-136.2832	52.40101	-2.60	0.010	-239.746 -32.82038
TIME_V1SCAN	.0221163	.0379857	0.58	0.561	-.0528845 .0971172
w1BMI	3.800979	3.64948	1.04	0.299	-3.404723 11.00668
w1dxDiabetes	8.689175	45.5211	0.19	0.849	-81.25206 98.63041
w1Glucose	.7404786	1.065097	0.70	0.488	-1.362893 2.84385
ICV_volum2	.0016402	.0002212	7.41	0.000	.0012034 .0020769
_cons	1826.639	391.5034	4.67	0.000	1053.626 2599.651

742 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1G

Multiple-imputation estimates
 Linear regression

	Imputations = 5
Number of obs	= 179
Average RVI	= 0.0002
Largest FMI	= 0.0020
Complete DF	= 167
DF adjustment: Small sample	DF: min = 164.71 avg = 164.99 max = 165.03
Model F test: Equal FMI	F(11, 165.0) = 16.16
Within VCE type: OLS	Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-89.11201	69.1528	-1.29	0.199	-225.6503 47.42624
Sex					
Men	-189.283	70.02835	-2.70	0.008	-327.55 -51.01606
Sex#c.NFLw1w3tracklow					
Men	226.7402	96.67345	2.35	0.020	35.86397 417.6164
Sex	0 (omitted)				
w1Age	-5.712957	2.84412	-2.01	0.046	-11.32851 -.0974034

Race	-78.73124	51.69168	-1.52	0.130	-180.7935	23.33101
PovStat	-111.6083	53.29188	-2.09	0.038	-216.8301	-6.386534
TIME_V1SCAN	.0614154	.0386221	1.59	0.114	-.0148417	.1376725
w1BMI	3.926176	3.711114	1.06	0.292	-3.401207	11.25356
w1dxDiabetes	16.45795	45.47747	0.36	0.718	-73.336	106.2519
w1Glucose	1.223985	1.075227	1.14	0.257	-.899002	3.346973
ICV_volM2	.0020679	.000225	9.19	0.000	.0016238	.0025121
_cons	1304.854	397.8181	3.28	0.001	519.3837	2090.324

743 .

744 . //ANALYSIS C//

745 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1dxDiabetes w1Gl

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0001	
Largest FMI	=	0.0008	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	= 164.93
		avg	= 165.02
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	1.70
Within VCE type: OLS	Prob > F	=	0.0779

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.448686	.8755129	-2.80	0.006	-4.177336 -.720036
Sex					
Men	-.4424546	.8866206	-0.50	0.618	-2.193037 1.308128
Sex#c.NFLw1w3tracklow					
Men	2.552812	1.22394	2.09	0.039	.1362115 4.969412
Sex	0 (omitted)				
w1Age	.0485435	.036008	1.35	0.179	-.0225523 .1196393
Race	1.135257	.6544556	1.73	0.085	-.1569284 2.427442
PovStat	.8563892	.6747082	1.27	0.206	-.4757834 2.188562
TIME_V1SCAN	-.0005934	.000489	-1.21	0.227	-.0015588 .0003721
w1BMI	.0537092	.0469849	1.14	0.255	-.0390598 .1464783
w1dxDiabetes	-.2594458	.5754301	-0.45	0.653	-1.395605 .8767134
w1Glucose	.0016268	.0136092	0.12	0.905	-.0252438 .0284974
ICV_volM2	2.36e-06	2.85e-06	0.83	0.409	-3.27e-06 7.98e-06
_cons	-2.332377	5.036421	-0.46	0.644	-12.27651 7.611752

746 .

747 . save, replace
file finaldata_imputed.dta saved

748 .

```

749 .
750 .
751 .
752 . *****MODEL 4: MODEL 2+liver/kidney disease*****
753 .
754 . //Overall//  

755 .
756 . use finaldata_imputed,clear  

  

757 .
758 .
759 . //ANALYSIS A//  

760 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0257	
Largest FMI	=	0.2714	
Complete DF	=	166	
DF adjustment: Small sample	DF:	min	= 42.79
		avg	= 152.32
		max	= 164.01
Model F test: Equal FMI	F(12, 163.4)	=	13.17
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	9887.613	15442.66	0.64	0.523	-20604.92 40380.14
Sex	167078.4	17369.98	9.62	0.000	132746.5 201410.3
w1Age	-1507.004	871.4399	-1.73	0.086	-3227.692 213.6835
Race	-67669.37	14839.52	-4.56	0.000	-96973.88 -38364.85
PovStat	-1771.514	15671.01	-0.11	0.910	-32714.58 29171.55
TIME_V1SCAN	-21.5513	11.23019	-1.92	0.057	-43.72622 .6236139
w1BMI	2193.191	1147.173	1.91	0.058	-71.95223 4458.334
w1Creatinine	-13519.41	39614.71	-0.34	0.735	-93421.42 66382.6
w1USpecGrav	64792.66	1145116	0.06	0.955	-2196296 2325881
w1BUN	135.5936	1992.582	0.07	0.946	-3800.053 4071.24
w1ALP	305.5135	329.2976	0.93	0.355	-344.6978 955.7249
w1UricAcid	-18533.21	5712.784	-3.24	0.001	-29813.7 -7252.723
_cons	1068888	1151904	0.93	0.355	-1205605 3343380

```

761 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0214	
Largest FMI	=	0.2305	
Complete DF	=	166	
DF adjustment: Small sample	DF:	min	= 52.89
		avg	= 153.40
		max	= 163.93
Model F test: Equal FMI	F(12, 163.6)	=	14.43
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	11620.32	8351.47	1.39	0.166	-4870.469 28111.11
Sex	83606.56	9362.253	8.93	0.000	65105.02 102108.1
w1Age	-1717.339	471.4899	-3.64	0.000	-2648.333 -786.3452
Race	-48007.25	8000.892	-6.00	0.000	-63806.24 -32208.26
PovStat	-1691.656	8467.028	-0.20	0.842	-18410.15 15026.83
TIME_V1SCAN	-8.453457	6.072465	-1.39	0.166	-20.4442 3.537291
w1BMI	1188.912	620.902	1.91	0.057	-37.12318 2414.947
w1Creatinine	4524.573	20911.3	0.22	0.830	-37420.14 46469.28
w1USpecGrav	-260406.9	619200.7	-0.42	0.675	-1483065 962251.6
w1BUN	598.2174	1073.184	0.56	0.578	-1521.223 2717.658
w1ALP	235.223	178.0784	1.32	0.188	-116.4051 586.851
w1UricAcid	-8610.001	3085.149	-2.79	0.006	-14701.89 -2518.113
_cons	933989.6	623032.6	1.50	0.136	-296241.1 2164220

762 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0379	
Largest FMI	=	0.3499	
Complete DF	=	166	
DF adjustment:	Small sample		
DF:	min	=	29.58
	avg	=	148.14
	max	=	163.90
Model F test:	Equal FMI	F(12, 162.8)	= 8.94
Within VCE type:	OLS	Prob > F	= 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-143.3735	7519.888	-0.02	0.985	-14991.99 14705.24
Sex	71576.98	8574.189	8.35	0.000	54610.12 88543.84
w1Age	-346.8013	425.1315	-0.82	0.416	-1186.272 492.6694
Race	-16983.63	7255.041	-2.34	0.020	-31312.73 -2654.537
PovStat	-4397.083	7628.058	-0.58	0.565	-19459.01 10664.85
TIME_V1SCAN	-11.5467	5.470382	-2.11	0.036	-22.34857 -.744836
w1BMI	916.2915	560.4783	1.63	0.104	-190.4816 2023.065
w1Creatinine	-16065.09	20224.57	-0.79	0.433	-57393.81 25263.64
w1USpecGrav	137370	559837.7	0.25	0.806	-968162.3 1242902
w1BUN	-202.2031	981.859	-0.21	0.837	-2142.839 1738.433
w1ALP	101.5508	160.3056	0.63	0.527	-214.9797 418.0813
w1UricAcid	-8484.251	2782.521	-3.05	0.003	-13978.71 -2989.797
_cons	312176.3	563225.1	0.55	0.580	-800048.8 1424401

763 .

764 . //ANALYSIS B//

765 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0443	
Largest FMI	=	0.3817	
Complete DF	=	165	
DF adjustment:	Small sample		
DF:	min	=	25.76
	avg	=	147.60
	max	=	162.98
Model F test:	Equal FMI	F(12, .)	= .
Within VCE type:	OLS	Prob > F	= .

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-20.91542	52.54266	-0.40	0.691	-124.6735 82.8426
Sex	-32.63112	76.78724	-0.42	0.672	-184.4131 119.1509
w1Age	-7.779784	2.964598	-2.62	0.010	-13.63394 -1.925632
Race	-67.16429	54.83083	-1.22	0.222	-175.4524 41.12377
PovStat	-133.1016	53.23628	-2.50	0.013	-238.2245 -27.97868
TIME_V1SCAN	.0140673	.0383756	0.37	0.714	-.0617124 .0898469
w1BMI	2.858419	3.934813	0.73	0.469	-4.911467 10.6283
w1Creatinine	-15.19572	144.1592	-0.11	0.917	-311.6519 281.2604
w1USpecGrav	-1780.355	3972.164	-0.45	0.655	-9630.728 6070.019
w1BUN	6.119044	6.841553	0.89	0.373	-7.40148 19.63957
w1ALP	-.8856472	1.120705	-0.79	0.431	-3.098667 1.327372
w1UricAcid	-.5304925	19.8336	-0.03	0.979	-39.69687 38.63589
ICV_volum2	.001676	.0002307	7.27	0.000	.0012205 .0021315
_cons	3690.52	3996.858	0.92	0.357	-4208.682 11589.72

766 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates
 Linear regression

Imputations	=	5	
Number of obs	=	179	
Average RVI	=	0.0138	
Largest FMI	=	0.1275	
Complete DF	=	165	
DF:	min	= 94.69	
	avg	= 155.74	
	max	= 162.96	
DF adjustment:	Small sample	F(12, .)	= .
Within VCE type:	OLS	Prob > F	= .

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	28.53988	53.91103	0.53	0.597	-77.91534 134.9951
Sex	-105.4731	77.57297	-1.36	0.176	-258.6708 47.72461
w1Age	-5.175618	3.044195	-1.70	0.091	-11.18678 .8355443
Race	-64.01771	56.09872	-1.14	0.255	-174.7949 46.7595
PovStat	-108.3738	54.72656	-1.98	0.049	-216.4387 -.3089667
TIME_V1SCAN	.0449875	.039454	1.14	0.256	-.0329212 .1228963
w1BMI	2.857411	4.043892	0.71	0.481	-5.127772 10.84259
w1Creatinine	39.48055	128.0463	0.31	0.759	-214.7344 293.6955
w1USpecGrav	425.6325	4070.397	0.10	0.917	-7617.096 8468.361
w1BUN	10.16247	6.925953	1.47	0.144	-3.515064 23.84
w1ALP	-.0474513	1.152474	-0.04	0.967	-2.3232 2.228297
w1UricAcid	-13.35023	20.35309	-0.66	0.513	-53.54063 26.84018
ICV_volum2	.0020858	.0002373	8.79	0.000	.0016172 .0025544
_cons	951.9158	4094.632	0.23	0.816	-7138.601 9042.432

767 .

768 . //ANALYSIS C//

769 .

770 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0030
	Largest FMI	=	0.0343
	Complete DF	=	165
DF adjustment:	min	=	151.05
	avg	=	162.00
Small sample	max	=	163.01
	F(12, .)	=	.
Within VCE type:	OLS	Prob > F	= .

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.216494	.6772246	-1.80	0.074	-2.553763 .1207744
Sex	.0096039	.9706344	0.01	0.992	-1.907083 1.926291
w1Age	.0487363	.038266	1.27	0.205	-.0268252 .1242977
Race	1.248942	.704005	1.77	0.078	-.1412087 2.639093
PovStat	.7579068	.6876604	1.10	0.272	-.5999656 2.115779
TIME_V1SCAN	-.0006622	.0004954	-1.34	0.183	-.0016405 .0003161
w1BMI	.0096538	.0508225	0.19	0.850	-.0907018 .1100094
w1Creatinine	.389267	1.535442	0.25	0.800	-2.64445 3.422984
w1USpecGrav	32.72891	50.27849	0.65	0.516	-66.55304 132.0109
w1BUN	.065246	.0867029	0.75	0.453	-.1059621 .236454
w1ALP	-.008233	.0144725	-0.57	0.570	-.0368109 .0203448
w1UricAcid	.0165543	.2555875	0.06	0.948	-.488137 .5212456
ICV_volM2	2.64e-06	2.98e-06	0.89	0.376	-3.24e-06 8.53e-06
_cons	-35.60143	50.59179	-0.70	0.483	-135.5021 64.29928

771 .

772 . save, replace
 file finaldata_imputed.dta saved

773 .

774 . //Males//

775 .

776 . use finaldata_imputed,clear

777 .

778 .

779 . //ANALYSIS A//

780 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0534
	Largest FMI	=	0.4295
	Complete DF	=	68
DF adjustment:	min	=	16.41
	avg	=	59.94
Small sample	max	=	66.07
	F(11, 65.5)	=	2.54
Model F test:	Equal FMI		
Within VCE type:	OLS	Prob > F	= 0.0098

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	12245.44	27299.45	0.45	0.655	-42314.26 66805.14
Sex	0	(omitted)			
w1Age	-2624.205	1635.043	-1.60	0.113	-5889.424 641.0138
Race	-90975.33	27424.06	-3.32	0.002	-145819.8 -36130.89
PovStat	18362.41	28155.46	0.65	0.517	-37859.67 74584.5
TIME_V1SCAN	-41.34734	19.70772	-2.10	0.040	-80.70398 -1.990698
w1BMI	4177.533	2836.485	1.47	0.146	-1488.848 9843.913
w1Creatinine	-22689.21	86388.18	-0.26	0.796	-205452.6 160074.2
w1USpecGrav	-2271744	2018181	-1.13	0.264	-6301540 1758052
w1BUN	-322.7289	3473.425	-0.09	0.926	-7279.597 6634.139
w1ALP	629.6453	693.6636	0.91	0.367	-755.2715 2014.562
w1UricAcid	-16735.9	10766.01	-1.55	0.125	-38232.41 4760.62
_cons	3812726	2045382	1.86	0.067	-271500.3 7896952

781 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0609	
Largest FMI	=	0.4657	
Complete DF	=	68	
DF adjustment: Small sample	DF:	min	= 14.56
		avg	= 59.68
		max	= 66.06
Model F test: Equal FMI	F(11, 65.3)	=	3.93
Within VCE type: OLS	Prob > F	=	0.0002

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	17372.4	14113.33	1.23	0.223	-10823.04 45567.84
Sex	0	(omitted)			
w1Age	-2621.992	850.5504	-3.08	0.003	-4320.651 -923.3322
Race	-63258.89	14223.43	-4.45	0.000	-91698.38 -34819.41
PovStat	6851.629	14617.14	0.47	0.641	-22335.11 36038.37
TIME_V1SCAN	-16.54178	10.24487	-1.61	0.111	-37.00122 3.917662
w1BMI	2525.983	1474.128	1.71	0.091	-418.8406 5470.807
w1Creatinine	8793.799	46062.4	0.19	0.851	-89642.93 107230.5
w1USpecGrav	-1607230	1050690	-1.53	0.131	-3705365 490905.3
w1BUN	41.44767	1816.888	0.02	0.982	-3600.692 3683.587
w1ALP	415.0992	360.5149	1.15	0.254	-304.6795 1134.878
w1UricAcid	-7656.643	5601.065	-1.37	0.176	-18840.85 3527.563
_cons	2491161	1065545	2.34	0.022	363224.3 4619099

782 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0435	
Largest FMI	=	0.3616	
Complete DF	=	68	
DF adjustment: Small sample	DF:	min	= 20.70
		avg	= 60.05
		max	= 66.04
Model F test: Equal FMI	F(11, 65.6)	=	1.73
Within VCE type: OLS	Prob > F	=	0.0868

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	956.4997	13253.89	0.07	0.943	-25527.18 27440.18
Sex	0 (omitted)				
w1Age	-710.7215	796.7285	-0.89	0.376	-2301.901 880.4579
Race	-27000.06	13311.53	-2.03	0.047	-53614.5 -385.626
PovStat	2874.163	13683.95	0.21	0.834	-24448.77 30197.09
TIME_V1SCAN	-22.65087	9.601771	-2.36	0.021	-41.82678 -3.474968
w1BMI	1604.032	1387.354	1.16	0.252	-1168.43 4376.493
w1Creatinine	-24371.92	40201.13	-0.61	0.551	-108048.8 59304.97
w1USpecGrav	-1085161	991193.2	-1.09	0.278	-3065309 894986
w1BUN	-663.6756	1688.661	-0.39	0.696	-4045.37 2718.019
w1ALP	327.6912	337.686	0.97	0.335	-346.5121 1001.895
w1UricAcid	-6240.283	5230.533	-1.19	0.237	-16683.32 4202.75
_cons	1712524	1005380	1.70	0.093	-296163.2 3721212

783 .

784 .

785 . //ANALYSIS B//

786 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==2

Multiple-imputation estimates

Linear regression

Imputations = 5

Number of obs = 80

Average RVI = 0.0612

Largest FMI = 0.4511

Complete DF = 67

DF adjustment: Small sample

DF: min = 15.19

avg = 58.79

max = 64.99

Model F test: Equal FMI

F(11, 64.3) = 5.40

Within VCE type: OLS

Prob > F = 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	66.30366	88.03049	0.75	0.454	-109.5437 242.151
Sex	0 (omitted)				
w1Age	-6.285284	5.358774	-1.17	0.245	-16.99235 4.421778
Race	-.9493804	98.57243	-0.01	0.992	-197.979 196.0803
PovStat	-268.3072	91.98583	-2.92	0.005	-452.0413 -84.57316
TIME_V1SCAN	.0000918	.0657297	0.00	0.999	-.1311937 .1313773
w1BMI	5.819389	9.349923	0.62	0.536	-12.86041 24.49919
w1Creatinine	57.98529	287.0348	0.20	0.843	-553.153 669.1235
w1USpecGrav	1173.248	6775.305	0.17	0.863	-12383.28 14729.78
w1BUN	-1.187397	11.41122	-0.10	0.918	-24.06342 21.68862
w1ALP	-.4342545	2.270276	-0.19	0.849	-4.968337 4.099828
w1UricAcid	3.845984	35.75478	0.11	0.915	-67.58091 75.27288
ICV_volum2	.0021459	.0003573	6.01	0.000	.0014323 .0028595
_cons	-178.1829	6959.022	-0.03	0.980	-14104.11 13747.75

787 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGr
> & Sex==2

Multiple-imputation estimates
Linear regression

		Imputations	=	5
		Number of obs	=	80
		Average RVI	=	0.0405
		Largest FMI	=	0.3305
		Complete DF	=	67
DF adjustment:	Small sample	DF:	min	= 22.93
			avg	= 60.23
			max	= 65.06
Model F test:	Equal FMI	F(11, 64.7)	=	7.30
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	164.5768	85.92145	1.92	0.060	-7.047716 336.2014
Sex	0 (omitted)				
w1Age	-3.830754	5.218036	-0.73	0.466	-14.25451 6.593005
Race	22.84108	95.91494	0.24	0.813	-168.82 214.5021
PovStat	-223.448	89.81336	-2.49	0.015	-402.836 -44.05993
TIME_V1SCAN	.051804	.0641832	0.81	0.423	-0.0763887 .1799966
w1BMI	11.81448	9.083761	1.30	0.198	-6.328233 29.95719
w1Creatinine	115.1874	258.482	0.45	0.660	-419.6096 649.9844
w1USpecGrav	2302.926	6596.135	0.35	0.728	-10890.34 15496.19
w1BUN	10.37558	10.96395	0.95	0.348	-11.56029 32.31145
w1ALP	.6268714	2.217672	0.28	0.778	-3.802092 5.055835
w1UricAcid	-29.67927	34.9056	-0.85	0.398	-99.40631 40.04777
ICV_volum2	.0024182	.000349	6.93	0.000	.0017213 .0031152
_cons	-2040.046	6767.045	-0.30	0.764	-15575.27 11495.18

788 .

789 . //ANALYSIS C//

790 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
> Sex==2

Multiple-imputation estimates
Linear regression

		Imputations	=	5
		Number of obs	=	80
		Average RVI	=	0.0062
		Largest FMI	=	0.0537
		Complete DF	=	67
DF adjustment:	Small sample	DF:	min	= 59.47
			avg	= 64.43
			max	= 65.06
Model F test:	Equal FMI	F(11, 65.1)	=	0.63
Within VCE type:	OLS	Prob > F	=	0.7961

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-.6255231	.8183744	-0.76	0.447	-2.260013 1.008967
Sex	0 (omitted)				
w1Age	.0091148	.0496226	0.18	0.855	-.0899945 .108224
Race	.9163308	.9066917	1.01	0.316	-.894487 2.727149
PovStat	.2706452	.855439	0.32	0.753	-1.437782 1.979072
TIME_V1SCAN	-.0005568	.0006119	-0.91	0.366	-.0017788 .0006651
w1BMI	-.1110487	.0868183	-1.28	0.205	-.284457 .0623597
w1Creatinine	1.112228	2.127709	0.52	0.603	-3.144599 5.369054
w1USpecGrav	42.46634	61.64967	0.69	0.493	-80.66262 165.5953
w1BUN	-.0488265	.1023044	-0.48	0.635	-.2531639 .1555109
w1ALP	-.0317264	.0211686	-1.50	0.139	-.0740024 .0105495
w1UricAcid	.0704821	.3317842	0.21	0.832	-.5921472 .7331115
ICV_volum2	1.27e-06	3.34e-06	0.38	0.704	-5.40e-06 7.94e-06

_cons	-35.3049	63.26654	-0.56	0.579	-161.6654	91.0556
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791 .

792 . save, replace
file finaldata_imputed.dta saved

793 .

794 .

795 .

796 . //Females//

797 .

798 . use finaldata_imputed,clear

799 .

800 .

801 . //ANALYSIS A//

802 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BU

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0142
	Largest FMI	=	0.1521
	Complete DF	=	87
DF adjustment:	Small sample	DF:	
		min	= 53.70
		avg	= 82.32
		max	= 85.04
Model F test:	Equal FMI	F(11, 85.0)	= 3.17
Within VCE type:	OLS	Prob > F	= 0.0012

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	7032.22	18647.13	0.38	0.707	-30042.99 44107.43
Sex	0	(omitted)			
w1Age	-800.7866	1038.642	-0.77	0.443	-2865.872 1264.298
Race	-56980.61	16781.48	-3.40	0.001	-90347.96 -23613.25
PovStat	-23349.6	17914.91	-1.30	0.196	-58969.13 12269.92
TIME_V1SCAN	-1.521189	13.19106	-0.12	0.908	-27.74836 24.70599
w1BMI	2438.574	1203.257	2.03	0.046	46.09546 4831.053
w1Creatinine	263.1216	41889.52	0.01	0.995	-83731.09 84257.33
w1USpecGrav	1976016	1324302	1.49	0.139	-657044.2 4609077
w1BUN	-1753.379	2542.42	-0.69	0.492	-6808.805 3302.047
w1ALP	133.9136	376.4116	0.36	0.723	-614.4952 882.3224
w1UricAcid	-19632.08	6901.441	-2.84	0.006	-33354.17 -5909.979
_cons	-742698	1338492	-0.55	0.580	-3403968 1918572

803 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0251
	Largest FMI	=	0.2485
	Complete DF	=	87
DF adjustment:	Small sample	DF:	
		min	= 35.88
		avg	= 80.72
		max	= 85.05
Model F test:	Equal FMI	F(11, 84.8)	= 3.86
Within VCE type:	OLS	Prob > F	= 0.0002

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	6960.588	10596.73	0.66	0.513	-14109.28 28030.45
Sex	0	(omitted)			
w1Age	-1093.438	589.5999	-1.85	0.067	-2265.722 78.84708
Race	-41026.07	9530.414	-4.30	0.000	-59976.27 -22075.86
PovStat	-9554.214	10169.26	-0.94	0.350	-29773.52 10665.09
TIME_V1SCAN	-.0215145	7.485822	-0.00	0.998	-14.90522 14.86219
w1BMI	1385.648	682.8584	2.03	0.046	27.89537 2743.4
w1Creatinine	5279.417	25035.74	0.21	0.834	-45501.54 56060.37
w1USpecGrav	819916.8	751482.9	1.09	0.278	-674225.6 2314059
w1BUN	-522.9764	1447.686	-0.36	0.719	-3401.993 2356.04
w1ALP	135.0435	213.7062	0.63	0.529	-289.8681 559.9552
w1UricAcid	-9426.589	3918.112	-2.41	0.018	-17217.04 -1636.132
_cons	-106060.8	759498.2	-0.14	0.889	-1616136 1404014

804 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN w1ALP

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	99
Average RVI	=	0.0040
Largest FMI	=	0.0284
Complete DF	=	87
DF adjustment:	Small sample	
DF:	min	= 81.54
	avg	= 84.63
	max	= 85.02
Model F test:	Equal FMI	F(11, 85.0) = 2.31
Within VCE type:	OLS	Prob > F = 0.0158

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1414.16	9008.473	-0.16	0.876	-19326.01 16497.69
Sex	0	(omitted)			
w1Age	-191.6925	501.2133	-0.38	0.703	-1188.238 804.8534
Race	-11792.17	8091.28	-1.46	0.149	-27880.09 4295.746
PovStat	-13791.75	8643.061	-1.60	0.114	-30976.41 3392.901
TIME_V1SCAN	-1.524981	6.366267	-0.24	0.811	-14.18286 11.13289
w1BMI	1076.82	581.2023	1.85	0.067	-78.85044 2232.491
w1Creatinine	-7014.017	18995.37	-0.37	0.713	-44805.04 30777
w1USpecGrav	1151525	639011.3	1.80	0.075	-119001.9 2422053
w1BUN	-597.9107	1223.77	-0.49	0.626	-3031.103 1835.282
w1ALP	1.060029	181.6771	0.01	0.995	-360.1679 362.2879
w1UricAcid	-9757.414	3330.064	-2.93	0.004	-16378.59 -3136.242
_cons	-662983.8	645875	-1.03	0.308	-1947157 621189.7

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807 . //ANALYSIS B//

808 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav & Sex==1

Multiple-imputation estimates
 Linear regression
 DF adjustment: **Small sample**
 Model F test: **Equal FMI**
 Within VCE type: **OLS**

	Imputations = 5
	Number of obs = 99
	Average RVI = 0.0050
	Largest FMI = 0.0485
	Complete DF = 86
DF:	min = 76.94
	avg = 83.43
	max = 84.07
F(12, 84.0)	= 3.86
Prob > F	= 0.0001

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-106.5478	65.20841	-1.63	0.106	-236.2249 23.12942
Sex	0 (omitted)				
w1Age	-10.59298	3.635978	-2.91	0.005	-17.82352 -3.362444
Race	-108.6976	63.32431	-1.72	0.090	-234.6241 17.2289
PovStat	-49.34878	63.06244	-0.78	0.436	-174.7545 76.05691
TIME_V1SCAN	.0157299	.0461016	0.34	0.734	-.0759485 .1074082
w1BMI	2.878469	4.275349	0.67	0.503	-5.623523 11.38046
w1Creatinine	-32.34902	139.005	-0.23	0.817	-309.1467 244.4486
w1USpecGrav	-3983.502	4684.535	-0.85	0.398	-13299.31 5332.305
w1BUN	11.59972	8.917032	1.30	0.197	-6.132695 29.33214
w1ALP	-1.338806	1.315664	-1.02	0.312	-3.955153 1.27754
w1UricAcid	-2.451445	24.82906	-0.10	0.922	-51.82858 46.92569
ICV_volM2	.0011333	.0003096	3.66	0.000	.0005177 .0017489
_cons	6675.341	4687.495	1.42	0.158	-2646.328 15997.01

809 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav > & Sex==1

Multiple-imputation estimates
 Linear regression
 DF adjustment: **Small sample**
 Model F test: **Equal FMI**
 Within VCE type: **OLS**

	Imputations = 5
	Number of obs = 99
	Average RVI = 0.0111
	Largest FMI = 0.1168
	Complete DF = 86
DF:	min = 61.29
	avg = 82.14
	max = 84.06
F(12, 84.0)	= 4.72
Prob > F	= 0.0000

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-95.72282	71.27986	-1.34	0.183	-237.4701 46.0245
Sex	0 (omitted)				
w1Age	-7.483106	3.976751	-1.88	0.063	-15.39123 .4250185
Race	-117.6763	69.35312	-1.70	0.093	-255.5961 20.24351
PovStat	-19.79287	69.00854	-0.29	0.775	-157.0238 117.4381
TIME_V1SCAN	.0389187	.0504398	0.77	0.443	-.0613866 .1392241
w1BMI	.4472643	4.67744	0.10	0.924	-8.854324 9.748852
w1Creatinine	-19.81985	157.3697	-0.13	0.900	-334.4696 294.8299
w1USpecGrav	-1947.341	5134.76	-0.38	0.705	-12159.12 8264.434
w1BUN	7.009306	9.779422	0.72	0.476	-12.43961 26.45822
w1ALP	-.8984537	1.439663	-0.62	0.534	-3.761401 1.964494
w1UricAcid	9.097448	27.14928	0.34	0.738	-44.89287 63.08777
ICV_volM2	.0017983	.0003387	5.31	0.000	.0011247 .0024719
_cons	3863.249	5138.542	0.75	0.454	-6356.057 14082.55

810 .

811 . //ANALYSIS C//

812 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav
> Sex==1

Multiple-imputation estimates
Linear regression

	Imputations =	5
Number of obs	=	99
Average RVI	=	0.0027
Largest FMI	=	0.0246
Complete DF	=	86
DF adjustment: Small sample	DF:	min = 81.21
		avg = 83.77
		max = 84.06
Model F test: Equal FMI	F(12, 84.1)	= 1.45
Within VCE type: OLS	Prob > F	= 0.1589

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.902506	1.094491	-1.74	0.086	-4.079042 .2740297
Sex	0 (omitted)				
w1Age	.0912411	.0610588	1.49	0.139	-.030181 .2126632
Race	1.418018	1.063332	1.33	0.186	-.6965189 3.532554
PovStat	1.300578	1.058941	1.23	0.223	-.8052271 3.406382
TIME_V1SCAN	-.0007983	.0007747	-1.03	0.306	-.0023389 .0007422
w1BMI	.0937331	.0717902	1.31	0.195	-.0490293 .2364955
w1Creatinine	.6093292	2.306969	0.26	0.792	-3.980638 5.199296
w1USpecGrav	22.41637	78.64084	0.29	0.776	-133.9698 178.8025
w1BUN	.131195	.149727	0.88	0.383	-.1665516 .4289417
w1ALP	.0028793	.0221092	0.13	0.897	-.0410884 .0468469
w1UricAcid	-.220589	.4164525	-0.53	0.598	-1.048751 .6075727
ICV_volum2	5.22e-06	5.20e-06	1.00	0.318	-5.12e-06 .0000156
_cons	-34.07169	78.69356	-0.43	0.666	-190.5625 122.4191

813 .

814 . save, replace
file finaldata_imputed.dta saved

815 .

816 . **INTERACTION BY Sex**

817 .

818 .

819 . //ANALYSIS A//

820 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav

Multiple-imputation estimates
Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0237
Largest FMI	=	0.2674
Complete DF	=	165
DF adjustment: Small sample	DF:	min = 43.57
		avg = 151.92
		max = 163.01
Model F test: Equal FMI	F(13, 162.5)	= 12.11
Within VCE type: OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	8401.23	20757.01	0.40	0.686	-32586.3	49388.76
Sex						
Men	166074.2	20108.14	8.26	0.000	126321.4	205827
Sex#c.NFLw1w3tracklow						
Men	3088.336	28941.03	0.11	0.915	-54063.71	60240.38
Sex	0 (omitted)					
w1Age	-1511.375	874.8778	-1.73	0.086	-3238.929	216.1792
Race	-67681.99	14887.08	-4.55	0.000	-97081.77	-38282.2
PovStat	-1697.649	15735.69	-0.11	0.914	-32769.89	29374.59
TIME_V1SCAN	-21.4782	11.27842	-1.90	0.059	-43.74924	.7928449
w1BMI	2225.777	1188.861	1.87	0.063	-121.7799	4573.334
w1Creatinine	-13470.18	39810.98	-0.34	0.737	-93726.36	66786
w1USpecGrav	55773.86	1151160	0.05	0.961	-2217354	2328902
w1BUN	110.4391	2018.933	0.05	0.956	-3877.641	4098.52
w1ALP	305.128	330.2918	0.92	0.357	-347.076	957.332
w1UricAcid	-18539.1	5730.601	-3.24	0.001	-29855.29	-7222.908
_cons	1245056	1161750	1.07	0.285	-1048980	3539093

821 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0159
	Largest FMI	=	0.1892
	Complete DF	=	165
DF adjustment: Small sample	DF:	min	= 66.25
		avg	= 154.91
		max	= 162.94
Model F test: Equal FMI	F(13, 162.8)	=	13.40
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	6289.53	11202.42	0.56	0.575	-15831.29	28410.35
Sex						
Men	79869.62	10718.87	7.45	0.000	58694.62	101044.6
Sex#c.NFLw1w3tracklow						
Men	11116.91	15557.69	0.71	0.476	-19603.79	41837.6
Sex	0 (omitted)					
w1Age	-1732.255	472.5705	-3.67	0.000	-2665.423	-799.0879
Race	-48103.57	8008.615	-6.01	0.000	-63918.27	-32288.87
PovStat	-1415.057	8488.182	-0.17	0.868	-18176.07	15345.96
TIME_V1SCAN	-8.20901	6.089423	-1.35	0.180	-20.23372	3.815704
w1BMI	1304.594	642.484	2.03	0.044	35.8907	2573.298
w1Creatinine	5309.812	20563.53	0.26	0.797	-35743.74	46363.37
w1USpecGrav	-289856.1	621286.4	-0.47	0.641	-1516681	936969
w1BUN	497.1191	1082.584	0.46	0.647	-1640.866	2635.104
w1ALP	233.7921	178.3522	1.31	0.192	-118.3927	585.9769
w1UricAcid	-8640.74	3089.277	-2.80	0.006	-14741.03	-2540.453
_cons	1047051	627227.7	1.67	0.097	-191513.3	2285615

822 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1USpecGrav w1BUN

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0367
	Largest FMI	=	0.3558
	Complete DF	=	165
DF adjustment:	Small sample	DF:	min = 28.79
			avg = 146.92
			max = 162.89
Model F test:	Equal FMI	F(13, 162.0)	= 8.21
Within VCE type:	OLS	Prob > F	= 0.0000

	WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow		24.19883	10136.69	0.00	0.998	-19993.41 20041.8
Sex						
Men		71724.3	9977.03	7.19	0.000	51964.56 91484.03
Sex#c.NFLw1w3tracklow						
Men		-358.4686	14167.19	-0.03	0.980	-28340.51 27623.57
Sex		0	(omitted)			
w1Age		-346.5041	426.8533	-0.81	0.418	-1189.415 496.4063
Race		-16969.38	7281.438	-2.33	0.021	-31351.51 -2587.244
PovStat		-4408.347	7659.639	-0.58	0.566	-19533.35 10716.66
TIME_V1SCAN		-11.55049	5.493489	-2.10	0.037	-22.3984 .702575
w1BMI		912.9225	580.6664	1.57	0.118	-233.7545 2059.599
w1Creatinine		-16224.17	20448.1	-0.79	0.434	-58058.74 25610.41
w1USpecGrav		137657	562322.1	0.24	0.807	-972809.2 1248123
w1BUN		-196.6289	997.3115	-0.20	0.844	-2168.425 1775.167
w1ALP		101.6067	160.7977	0.63	0.528	-215.91 419.1235
w1UricAcid		-8481.136	2791.477	-3.04	0.003	-13993.54 -2968.73
_cons		383521.6	567780.2	0.68	0.500	-737736.5 1504780

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824 .

825 . //ANALYSIS B//

826 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1U
 > nal==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0383
	Largest FMI	=	0.3626
	Complete DF	=	164
DF adjustment:	Small sample	DF:	min = 27.91
			avg = 149.17
			max = 162.01
Model F test:	Equal FMI	F(13, 160.9)	= 10.44
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-87.8727	70.13949	-1.25	0.212	-226.3827 50.63728
Sex Men	-79.60615	83.11089	-0.96	0.340	-243.8345 84.62216
Sex#c.NFLw1w3tracklow Men	139.6318	97.33002	1.43	0.153	-52.56903 331.8327
Sex w1Age	0 (omitted)				
w1Age	-7.967319	2.958677	-2.69	0.008	-13.81008 -2.124563
Race	-68.35503	54.61262	-1.25	0.213	-176.214 39.50392
PovStat	-129.6267	53.1279	-2.44	0.016	-234.5406 -24.71271
TIME_V1SCAN	.0171418	.0383081	0.45	0.655	-.058508 .0927917
w1BMI	4.311226	4.050499	1.06	0.289	-3.687458 12.30991
w1Creatinine	-5.350827	142.5143	-0.04	0.970	-297.3219 286.6203
w1USpecGrav	-2150.639	3954.798	-0.54	0.587	-9965.431 5664.152
w1BUN	4.849837	6.852012	0.71	0.480	-8.688655 18.38833
w1ALP	-.9036332	1.117301	-0.81	0.420	-3.110038 1.302771
w1UricAcid	-.9123085	19.78052	-0.05	0.963	-39.97608 38.15146
ICV_volM2	.0016762	.0002299	7.29	0.000	.0012221 .0021303
_cons	4027.966	3994.037	1.01	0.315	-3864.313 11920.24

827 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1

> inal==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0140
	Largest FMI	=	0.1418
	Complete DF	=	164
DF adjustment: Small sample	DF:	min	= 86.80
		avg	= 155.26
		max	= 161.97
Model F test: Equal FMI	F(13, 161.8)	=	13.09
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-70.89989	71.56885	-0.99	0.323	-212.2298 70.43004
Sex Men	-175.3945	83.884	-2.09	0.038	-341.0641 -9.724981
Sex#c.NFLw1w3tracklow Men	207.4114	99.52548	2.08	0.039	10.87119 403.9516
Sex w1Age	0 (omitted)				
w1Age	-5.45334	3.016247	-1.81	0.072	-11.40958 .5028973
Race	-65.82963	55.51896	-1.19	0.237	-175.4661 43.80679
PovStat	-103.2008	54.24536	-1.90	0.059	-210.3207 3.919174
TIME_V1SCAN	.0495367	.0391192	1.27	0.207	-.0277145 .1267878
w1BMI	5.013431	4.134666	1.21	0.227	-3.151375 13.17824
w1Creatinine	54.72924	128.2543	0.43	0.671	-200.1983 309.6568
w1USpecGrav	-121.2864	4025.592	-0.03	0.976	-8074.488 7831.915
w1BUN	8.266532	6.903341	1.20	0.233	-5.366267 21.89933
w1ALP	-.0742606	1.141144	-0.07	0.948	-2.327747 2.179226
w1UricAcid	-13.926	20.16313	-0.69	0.491	-53.74358 25.89158
ICV_volM2	.0020862	.000235	8.88	0.000	.0016221 .0025502
_cons	1392.669	4062.879	0.34	0.732	-6633.9 9419.238

```

828 .
829 . //ANALYSIS C //
830 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1Creatinine w1US
> nal==1

```

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0034
Largest FMI	=	0.0406
Complete DF	=	164
DF adjustment: Small sample	DF: min	= 146.84
	avg	= 160.75
	max	= 162.00
Model F test: Equal FMI	F(13, 162.0)	= 1.50
Within VCE type: OLS	Prob > F	= 0.1219

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-2.392234	.900651	-2.66	0.009	-4.17078	-.6136881
Sex						
Men	-.8171575	1.053345	-0.78	0.439	-2.897363	1.263048
Sex#c.NFLw1w3tracklow						
Men	2.452384	1.25212	1.96	0.052	-.0202457	4.925015
Sex	0 (omitted)					
w1Age	.0454515	.0379698	1.20	0.233	-.0295283	.1204312
Race	1.227513	.6982055	1.76	0.081	-.1512523	2.606277
PovStat	.819082	.6824837	1.20	0.232	-.5286295	2.166794
TIME_V1SCAN	-.0006084	.000492	-1.24	0.218	-.0015799	.000363
w1BMI	.0351492	.0520423	0.68	0.500	-.0676197	.1379182
w1Creatinine	.5695224	1.533833	0.37	0.711	-2.461717	3.600762
w1USpecGrav	26.2613	49.94536	0.53	0.600	-72.36684	124.8894
w1BUN	.0428285	.0868317	0.49	0.623	-.1286452	.2143023
w1ALP	-.0085497	.0143505	-0.60	0.552	-.0368881	.0197887
w1UricAcid	.0097586	.2534077	0.04	0.969	-.4906506	.5101678
ICV_volM2	2.65e-06	2.96e-06	0.90	0.372	-3.19e-06	8.49e-06
_cons	-29.1326	50.44915	-0.58	0.564	-128.7557	70.49049

```

831 .
832 . save, replace
  file finaldata_imputed.dta saved

833 .
834 . *****MODEL 5: MODEL 2+oxidative stress*****
835 .
836 . //Overall// 
837 .
838 . use finaldata_imputed,clear

```

839 .

840 .

841 . //ANALYSIS A//

842 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0122
Largest FMI	=	0.1027
Complete DF	=	168
DF adjustment: Small sample	DF:	min = 110.64
		avg = 159.47
		max = 165.97
Model F test: Equal FMI	F(10, 165.8)	= 14.07
Within VCE type: OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	8280.477	15791.46	0.52	0.601	-22898.99 39459.94
Sex	139518.6	14169.27	9.85	0.000	111542.3 167495
w1Age	-2206.317	843.8839	-2.61	0.010	-3872.459 -540.1745
Race	-65115.82	16475.79	-3.95	0.000	-97659.38 -32572.25
PovStat	-1961.363	16078.14	-0.12	0.903	-33705.76 29783.04
TIME_V1SCAN	-19.62214	11.78275	-1.67	0.098	-42.88619 3.641899
w1BMI	655.1434	1118.516	0.59	0.559	-1553.228 2863.515
w1TotalD	824.3753	808.5609	1.02	0.310	-777.8997 2426.65
w1Albumin	-5461.73	27270.15	-0.20	0.842	-59302.82 48379.36
w1EosinPct	-2337.194	3516.309	-0.66	0.507	-9280.547 4606.158
_cons	1169298	150632.1	7.76	0.000	871886.8 1466710

843 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sam

Multiple-imputation estimates
 Linear regression

	Imputations =	5
Number of obs	=	179
Average RVI	=	0.0069
Largest FMI	=	0.0609
Complete DF	=	168
DF adjustment: Small sample	DF:	min = 137.88
		avg = 162.75
		max = 166.00
Model F test: Equal FMI	F(10, 166.0)	= 16.03
Within VCE type: OLS	Prob > F	= 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	9052.936	8457.332	1.07	0.286	-7645.273 25751.14
Sex	71143.49	7588.693	9.37	0.000	56160.41 86126.57
w1Age	-1903.195	452.2871	-4.21	0.000	-2796.173 -1010.216
Race	-47170.35	8779.453	-5.37	0.000	-64507.45 -29833.26
PovStat	-2786.882	8616.659	-0.32	0.747	-19799.34 14225.57
TIME_V1SCAN	-6.8932	6.312911	-1.09	0.276	-19.35734 5.570941
w1BMI	605.6245	599.5216	1.01	0.314	-578.0504 1789.299
w1TotalD	294.4702	424.5095	0.69	0.489	-544.9204 1133.861
w1Albumin	3075.052	14620.15	0.21	0.834	-25790.35 31940.46
w1EosinPct	529.1041	1880.528	0.28	0.779	-3183.965 4242.173
_cons	671882.4	80697.3	8.33	0.000	512554.3 831210.4

844 . mi estimate: reg WM NFLw1w3tracklow 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	=	0.0141
	Largest FMI	=	0.1124
	Complete DF	=	168
DF adjustment: Small sample	DF:	min	= 104.65
		avg	= 158.42
		max	= 165.94
Model F test: Equal FMI	F(10, 165.8)	=	9.51
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	300.5004	7666.86	0.04	0.969	-14837.54 15438.54
Sex	57114.65	6881.944	8.30	0.000	43526.39 70702.92
w1Age	-726.5861	409.5786	-1.77	0.078	-1535.251 82.07917
Race	-14949.63	8019.26	-1.86	0.064	-30792.13 892.862
PovStat	-3874.183	7803.697	-0.50	0.620	-19281.75 11533.38
TIME_V1SCAN	-10.57707	5.718356	-1.85	0.066	-21.86752 .7133932
w1BMI	180.499	542.9498	0.33	0.740	-891.4957 1252.494
w1TotalD	502.8115	394.2621	1.28	0.205	-278.968 1284.591
w1Albumin	-286.3702	13232.95	-0.02	0.983	-26413.01 25840.27
w1EosinPct	-2058.168	1708.758	-1.20	0.230	-5432.465 1316.129
_cons	446726	73109.66	6.11	0.000	302375.8 591076.1

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847 . //ANALYSIS B//

848 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0199
	Largest FMI	=	0.1696
	Complete DF	=	167
DF adjustment: Small sample	DF:	min	= 74.58
		avg	= 155.57
		max	= 165.00
Model F test: Equal FMI	F(11, 164.7)	=	12.71
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~S	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-25.95744	51.66219	-0.50	0.616	-127.9649 76.05004
Sex	-41.64425	61.64938	-0.68	0.500	-163.3676 80.07913
w1Age	-7.083279	2.76466	-2.56	0.011	-12.54196 -1.624598
Race	-83.62432	57.39711	-1.46	0.147	-197.009 29.76039
PovStat	-139.1521	52.65953	-2.64	0.009	-243.1274 -35.17675
TIME_V1SCAN	.0258118	.0387895	0.67	0.507	-.050779 .1024025
w1BMI	4.701393	3.666292	1.28	0.202	-2.537606 11.94039
w1TotalD	-.5556742	2.746063	-0.20	0.840	-6.02662 4.915272
w1Albumin	153.1031	89.35189	1.71	0.089	-23.31784 329.524
w1EosinPct	-.8184722	11.60473	-0.07	0.944	-23.74121 22.10427
ICV_vo1M2	.0016617	.0002221	7.48	0.000	.0012232 .0021003
_cons	1181.025	571.4502	2.07	0.040	52.69773 2309.352

849 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	179
		Average RVI	=	0.0104
		Largest FMI	=	0.0650
		Complete DF	=	167
DF adjustment:	Small sample	DF:	min	134.50
			avg	160.84
			max	165.03
Model F test:	Equal FMI	F(11, 164.9)	=	14.81
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5.483267	53.52704	0.10	0.919	-100.2078 111.1744
Sex	-114.93	63.85032	-1.80	0.074	-240.9996 11.13956
w1Age	-4.327629	2.864798	-1.51	0.133	-9.984101 1.328843
Race	-104.0658	58.91219	-1.77	0.079	-220.4019 12.27038
PovStat	-116.6489	54.5	-2.14	0.034	-224.2574 -9.040356
TIME_V1SCAN	.0522114	.0401228	1.30	0.195	-.0270105 .1314333
w1BMI	3.753582	3.793606	0.99	0.324	-3.736717 11.24388
w1TotalD	-2.483112	2.694867	-0.92	0.358	-7.81291 2.846686
w1Albumin	97.51536	92.48983	1.05	0.293	-85.10051 280.1312
w1EosinPct	4.157463	12.06884	0.34	0.731	-19.68755 28.00248
ICV_volM2	.0021006	.00023	9.13	0.000	.0016465 .0025547
_cons	1092.825	591.1234	1.85	0.066	-74.32759 2259.977

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851 . //ANALYSIS C//

852 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1Eo

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	179
		Average RVI	=	0.0070
		Largest FMI	=	0.0742
		Complete DF	=	167
DF adjustment:	Small sample	DF:	min	128.54
			avg	161.58
			max	165.02
Model F test:	Equal FMI	F(11, 165.0)	=	1.31
Within VCE type:	OLS	Prob > F	=	0.2245

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.253985	.6712672	-1.87	0.064	-2.579382 .0714117
Sex	.2594647	.8018495	0.32	0.747	-1.323742 1.842671
w1Age	.0530995	.0359565	1.48	0.142	-.0178946 .1240936
Race	1.235172	.7403812	1.67	0.097	-.226904 2.697247
PovStat	.7729115	.6843005	1.13	0.260	-.578206 2.124029
TIME_V1SCAN	-.0005419	.0005037	-1.08	0.284	-.0015365 .0004527
w1BMI	.037981	.0476814	0.80	0.427	-.0561644 .1321263
w1TotalD	.0044971	.0340125	0.13	0.895	-.0627998 .0717939
w1Albumin	.6798676	1.162147	0.59	0.559	-1.614732 2.974467
w1EosinPct	.1096332	.1489432	0.74	0.463	-.1844483 .4037148
ICV_volM2	2.35e-06	2.89e-06	0.81	0.418	-3.35e-06 8.05e-06
_cons	-6.107332	7.426853	-0.82	0.412	-20.77141 8.556749

```

853 .
854 . save, replace
  file finaldata_imputed.dta saved

855 .
856 .
857 . //Males//
858 .
859 .
860 . use finaldata_imputed,clear

861 .
862 .
863 . //ANALYSIS A//
864 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0141	
Largest FMI	=	0.0612	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 60.94
		avg	= 66.64
		max	= 68.00
Model F test: Equal FMI	F(9, 68.0)	=	2.68
Within VCE type: OLS	Prob > F	=	0.0100

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	12100.73	27393.86	0.44	0.660	-42587.52 66788.98
Sex	0	(omitted)			
w1Age	-2396.579	1699.052	-1.41	0.163	-5787.254 994.0974
Race	-68552.59	29978.09	-2.29	0.025	-128396.1 -8709.042
PovStat	19656.86	29205.03	0.67	0.503	-38653.47 77967.19
TIME_V1SCAN	-36.62507	20.43205	-1.79	0.077	-77.3966 4.146457
w1BMI	1726.865	2644.073	0.65	0.516	-3549.639 7003.369
w1TotalD	2127.429	1568.869	1.36	0.180	-1009.782 5264.641
w1Albumin	6880.852	54128.77	0.13	0.899	-101138.7 114900.4
w1EosinPct	-714.9966	6918.488	-0.10	0.918	-14521.87 13091.88
_cons	1347958	331537.6	4.07	0.000	686327.7 2009589

```

865 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0111	
Largest FMI	=	0.0618	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 60.86
		avg	= 66.86
		max	= 68.04
Model F test: Equal FMI	F(9, 68.0)	=	4.43
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	13817.28	14175.92	0.97	0.333	-14476.16 42110.73
Sex	0 (omitted)				
w1Age	-2339.027	882.335	-2.65	0.010	-4099.773 -578.2815
Race	-52189.43	15569.18	-3.35	0.001	-83267.87 -21110.99
PovStat	6108.974	15137.03	0.40	0.688	-24108.12 36326.06
TIME_V1SCAN	-13.01488	10.6171	-1.23	0.224	-34.20074 8.170974
w1BMI	1546.151	1374.104	1.13	0.264	-1195.987 4288.29
w1TotalD	842.3994	815.6948	1.03	0.306	-788.7605 2473.559
w1Albumin	22660.9	28106.86	0.81	0.423	-33426.91 78748.71
w1EosinPct	-84.99569	3592.602	-0.02	0.981	-7254.272 7084.281
_cons	717834.7	172248.8	4.17	0.000	374094.2 1061575

866 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0146	
Largest FMI	=	0.0344	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 64.77
		avg	= 66.82
		max	= 67.91
Model F test: Equal FMI	F(9, 68.0)	=	1.73
Within VCE type: OLS	Prob > F	=	0.0993

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	3009.242	13338.24	0.23	0.822	-23627.63 29646.12
Sex	0 (omitted)				
w1Age	-552.5486	823.8441	-0.67	0.505	-2196.694 1091.596
Race	-13582.27	14536.4	-0.93	0.354	-42602.02 15437.47
PovStat	4159.244	14150.88	0.29	0.770	-24094.27 32412.76
TIME_V1SCAN	-20.96695	9.905146	-2.12	0.038	-40.73283 -1.201059
w1BMI	236.7887	1281.036	0.18	0.854	-2319.643 2793.221
w1TotalD	1264.888	750.0745	1.69	0.097	-233.2147 2762.992
w1Albumin	-7403.994	26256.32	-0.28	0.779	-59803.92 44995.93
w1EosinPct	-382.4841	3355.129	-0.11	0.910	-7078.425 6313.456
_cons	567347	160686.3	3.53	0.001	246669.1 888024.8

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870 . //ANALYSIS B//

871 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0122	
Largest FMI	=	0.0809	
Complete DF	=	69	
DF adjustment: Small sample	DF:	min	= 56.97
		avg	= 65.56
		max	= 66.97
Model F test: Equal FMI	F(10, 67.0)	=	6.77
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	85.21429	85.52432	1.00	0.323	-85.55585	255.9844
Sex	0	(omitted)				
w1Age	-6.948567	5.303721	-1.31	0.195	-17.53506	3.637923
Race	47.69998	99.85555	0.48	0.634	-151.7823	247.1822
PovStat	-267.6416	90.66265	-2.95	0.004	-448.6162	-86.66698
TIME_V1SCAN	.0147174	.0650086	0.23	0.822	-.1150428	.1444777
w1BMI	9.946754	8.296254	1.20	0.235	-6.615024	26.50853
w1TotalD	4.801227	4.979795	0.96	0.339	-5.170757	14.77321
w1Albumin	60.27377	169.2439	0.36	0.723	-277.5522	398.0998
w1EosinPct	-14.4119	21.60785	-0.67	0.507	-57.54171	28.71791
ICV_volM2	.0020932	.0003373	6.21	0.000	.0014199	.0027664
_cons	606.2015	1146.103	0.53	0.599	-1681.683	2894.086

872 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0113
Largest FMI	=	0.1054
Complete DF	=	69
DF adjustment:	Small sample	
DF:	min	= 52.85
	avg	= 65.43
	max	= 67.07
Model F test:	Equal FMI	F(10, 67.0) = 8.08
Within VCE type:	OLS	Prob > F = 0.0000

Right_Hippocas~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	153.9526	85.24336	1.81	0.075	-16.20802	324.1131
Sex	0	(omitted)				
w1Age	-6.820369	5.310578	-1.28	0.203	-17.42012	3.779385
Race	-11.34117	99.88927	-0.11	0.910	-210.8616	188.1792
PovStat	-241.8888	90.74185	-2.67	0.010	-423.011	-60.7666
TIME_V1SCAN	.0511285	.0651337	0.78	0.435	-.0788795	.1811365
w1BMI	12.7662	8.309143	1.54	0.129	-3.820702	29.35311
w1TotalD	1.17825	5.053077	0.23	0.817	-8.95762	11.31412
w1Albumin	-73.94144	169.419	-0.44	0.664	-412.0997	264.2168
w1EosinPct	-17.17574	21.64173	-0.79	0.430	-60.37194	26.02046
ICV_volM2	.002426	.000338	7.18	0.000	.0017515	.0031006
_cons	971.3123	1147.081	0.85	0.400	-1318.377	3261.002

873 .

874 . //ANALYSIS C//

875 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

Imputations	=	5
Number of obs	=	80
Average RVI	=	0.0080
Largest FMI	=	0.0443
Complete DF	=	69
DF adjustment:	Small sample	
DF:	min	= 62.55
	avg	= 66.32
	max	= 67.03
Model F test:	Equal FMI	F(10, 67.0) = 0.45
Within VCE type:	OLS	Prob > F = 0.9136

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	- .2989878	.8122861	-0.37	0.714	-1.920336 1.32236
Sex	0	(omitted)			
w1Age	- .0120644	.0507429	-0.24	0.813	- .1133498 .0892211
Race	1.453299	.9502262	1.53	0.131	- .4442812 3.35088
PovStat	.3781301	.8694871	0.43	0.665	-1.357674 2.113934
TIME_V1SCAN	-.0004862	.0006218	-0.78	0.437	- .0017273 .0007549
w1BMI	-.0433505	.0791974	-0.55	0.586	- .2014365 .1147355
w1TotalD	.0428611	.0467926	0.92	0.363	- .0506595 .1363818
w1Albumin	-.3823828	1.617168	-0.24	0.814	-3.610235 2.84547
w1EosinPct	-.0107417	.2068766	-0.05	0.959	- .4236848 .4022014
ICV_volM2	-1.15e-08	3.23e-06	-0.00	0.997	-6.45e-06 6.43e-06
_cons	7.150598	10.95282	0.65	0.516	-14.71269 29.01389

```

876 .
877 . save, replace
      file finaldata_imputed.dta saved

878 .
879 .
880 .
881 . //Females//
882 .
883 . use finaldata_imputed,clear

884 .
885 .
886 . //ANALYSIS A//
887 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
Linear regression
      Imputations      =      5
      Number of obs     =     99
      Average RVI       =    0.0214
      Largest FMI        =    0.1724
      Complete DF        =     89
DF adjustment: Small sample
      DF:      min      =    50.12
              avg      =    82.38
              max      =    87.05
Model F test: Equal FMI
      F(    9,    86.8)  =    2.32
Within VCE type: OLS
      Prob > F          =    0.0216

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5093.619	18999.47	0.27	0.789	-32671.36 42858.59
Sex	0	(omitted)			
w1Age	-1990.843	973.7492	-2.04	0.044	-3926.327 -55.35815
Race	-58458.88	18935.66	-3.09	0.003	-96126.51 -20791.25
PovStat	-21750.27	19192.91	-1.13	0.260	-59898.73 16398.18
TIME_V1SCAN	-3.896695	14.17117	-0.27	0.784	-32.0656 24.27221
w1BMI	704.9438	1160.422	0.61	0.545	-1601.548 3011.436
w1TotalD	87.61882	907.2475	0.10	0.923	-1734.535 1909.773
w1Albumin	-17785.44	29815.05	-0.60	0.552	-77045.63 41474.75
w1EosinPct	-2343.752	4020.251	-0.58	0.561	-10338.22 5650.718
_cons	1353503	157195.9	8.61	0.000	1041024 1665983

888 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0164
	Largest FMI	=	0.1414
	Complete DF	=	89
DF adjustment:	Small sample	DF:	
		min	= 57.09
		avg	= 83.43
		max	= 87.05
Model F test:	Equal FMI	F(9, 86.9)	= 3.81
Within VCE type:	OLS	Prob > F	= 0.0004

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4855.118	10516.74	0.46	0.645	-16048.56 25758.79
Sex	0	(omitted)			
w1Age	-1602.9	539.3869	-2.97	0.004	-2675.03 -530.771
Race	-41033.14	10445.8	-3.93	0.000	-61807.25 -20259.04
PovStat	-10578.2	10623.58	-1.00	0.322	-31693.7 10537.3
TIME_V1SCAN	-5497577	7.843153	-0.07	0.944	-16.13977 15.04025
w1BMI	619.1054	642.432	0.96	0.338	-657.8024 1896.013
w1TotalD	-39.41512	494.32	-0.08	0.937	-1029.24 950.4093
w1Albumin	-13895.23	16510.04	-0.84	0.402	-46710.44 18919.97
w1EosinPct	1026.897	2213.728	0.46	0.644	-3373.989 5427.783
_cons	798044.4	86952.76	9.18	0.000	625203.7 970885.1

889 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct if sa

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0186
	Largest FMI	=	0.1439
	Complete DF	=	89
DF adjustment:	Small sample	DF:	
		min	= 56.49
		avg	= 83.07
		max	= 87.05
Model F test:	Equal FMI	F(9, 86.9)	= 1.25
Within VCE type:	OLS	Prob > F	= 0.2783

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2727.48	9208.869	-0.30	0.768	-21031.65 15576.69
Sex	0	(omitted)			
w1Age	-789.497	471.9348	-1.67	0.098	-1727.533 148.5392
Race	-13874.57	9155.16	-1.52	0.133	-32083.07 4333.927
PovStat	-12375.41	9306.247	-1.33	0.187	-30872.87 6122.045
TIME_V1SCAN	-1.950397	6.866764	-0.28	0.777	-15.59961 11.69882
w1BMI	312.5106	562.5915	0.56	0.580	-805.7125 1430.734
w1TotalD	90.43374	433.409	0.21	0.835	-777.6236 958.4911
w1Albumin	2827.474	14455.27	0.20	0.845	-25903.71 31558.66
w1EosinPct	-2471.865	1954.163	-1.26	0.209	-6358.4 1414.669
_cons	493585.3	76167.63	6.48	0.000	342180 644990.7

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892 . //ANALYSIS B//

893 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0267
		Largest FMI	=	0.1704
		Complete DF	=	88
DF adjustment:	Small sample	DF:	min	= 50.16
			avg	= 81.35
			max	= 85.98
Model F test:	Equal FMI	F(10, 85.8)	=	4.76
Within VCE type:	OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-120.6562	62.08938	-1.94	0.055	-244.0929 2.780481
Sex	0 (omitted)				
w1Age	-9.168793	3.189276	-2.87	0.005	-15.50924 -2.828346
Race	-166.5616	65.37704	-2.55	0.013	-296.6037 -36.5195
PovStat	-71.19658	63.40168	-1.12	0.265	-197.2668 54.87362
TIME_V1SCAN	.0330242	.0463101	0.71	0.478	-.0590459 .1250942
w1BMI	4.381808	3.794052	1.15	0.251	-3.160552 11.92417
w1TotalD	-2.877734	2.962289	-0.97	0.336	-8.827188 3.071719
w1Albumin	171.5461	98.10054	1.75	0.084	-23.47198 366.5641
w1EosinPct	-.3164344	13.35229	-0.02	0.981	-26.90357 26.2707
ICV_volum2	.0011434	.0002923	3.91	0.000	.0005624 .0017245
_cons	1915.959	688.7884	2.78	0.007	546.6715 3285.246

894 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1E

Multiple-imputation estimates		Imputations	=	5
Linear regression		Number of obs	=	99
		Average RVI	=	0.0168
		Largest FMI	=	0.0753
		Complete DF	=	88
DF adjustment:	Small sample	DF:	min	= 72.61
			avg	= 83.15
			max	= 86.02
Model F test:	Equal FMI	F(10, 85.9)	=	6.30
Within VCE type:	OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-112.8073	67.05724	-1.68	0.096	-246.1233 20.50874
Sex	0 (omitted)				
w1Age	-6.314129	3.444306	-1.83	0.070	-13.16173 .5334703
Race	-161.0977	70.1725	-2.30	0.024	-300.6362 -21.5592
PovStat	-44.19149	68.33107	-0.65	0.520	-180.0546 91.67159
TIME_V1SCAN	.0523947	.0500296	1.05	0.298	-.0470737 .1518631
w1BMI	3.019028	4.097122	0.74	0.463	-5.125944 11.164
w1TotalD	-3.677076	3.046307	-1.21	0.231	-9.748902 2.39475
w1Albumin	170.9137	105.8612	1.61	0.110	-39.53088 381.3582
w1EosinPct	7.557127	14.54064	0.52	0.605	-21.42238 36.53663
ICV_volum2	.001808	.0003155	5.73	0.000	.0011807 .0024353
_cons	1191	743.6939	1.60	0.113	-287.4541 2669.454

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896 . //ANALYSIS C//

897 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1Eo

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0042
	Largest FMI	=	0.0350
	Complete DF	=	88
DF adjustment:	Small sample	DF:	min = 81.32
			avg = 85.51
			max = 86.06
Model F test:	Equal FMI	F(10, 86.0)	= 1.70
Within VCE type:	OLS	Prob > F	= 0.0944

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.331731	1.050224	-2.22	0.029	-4.419526 -.243937
Sex	0 (omitted)				
w1Age	.1035567	.0539323	1.92	0.058	-.0036574 .2107708
Race	1.05287	1.09566	0.96	0.339	-1.125389 3.231129
PovStat	1.150577	1.06782	1.08	0.284	-.9722361 3.27339
TIME_V1SCAN	-.0006169	.0007827	-0.79	0.433	-.0021729 .0009391
w1BMI	.1025199	.0642482	1.60	0.114	-.0252004 .2302402
w1TotalD	-.028566	.0468732	-0.61	0.544	-.1218234 .0646913
w1Albumin	.8437307	1.661138	0.51	0.613	-2.458471 4.145932
w1EosinPct	.0821867	.2202339	0.37	0.710	-.3556252 .5199987
ICV_volM2	6.04e-06	4.95e-06	1.22	0.225	-3.79e-06 .0000159
_cons	-14.46113	11.66338	-1.24	0.218	-37.64724 8.724976

898 .

899 . save, replace
 file finaldata_imputed.dta saved

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902 . *****INTERACTION BY Sex*****

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904 .

905 . //ANALYSIS A//

906 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1Eo

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0110
	Largest FMI	=	0.1010
	Complete DF	=	167
DF adjustment:	Small sample	DF:	min = 111.20
			avg = 159.25
			max = 164.98
Model F test:	Equal FMI	F(11, 164.9)	= 12.74
Within VCE type:	OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	7422.344	21018.04	0.35	0.724	-34077.88 48922.57
Sex					
Men	138910.2	17240.18	8.06	0.000	104869.8 172950.7
Sex#c.NFLw1w3tracklow					
Men	1811.468	29106.42	0.06	0.950	-55657.78 59280.72
Sex	0 (omitted)				
w1Age	-2210.275	848.723	-2.60	0.010	-3886.045 -534.5055
Race	-65098.46	16522.23	-3.94	0.000	-97734.79 -32462.14
PovStat	-1925.259	16135.39	-0.12	0.905	-33784.08 29933.56
TIME_V1SCAN	-19.58696	11.8299	-1.66	0.100	-42.9451 3.771193
w1BMI	671.1394	1150.486	0.58	0.560	-1600.446 2942.724
w1TotalD	824.0675	810.5704	1.02	0.312	-782.0999 2430.235
w1Albumin	-5484.612	27353.53	-0.20	0.841	-59492.73 48523.51
w1EosinPct	-2344.884	3528.946	-0.66	0.507	-9313.5 4623.731
_cons	1308822	152384.2	8.59	0.000	1007937 1609708

907 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0058
 Largest FMI = 0.0544
 Complete DF = 167
 DF adjustment: Small sample
 DF: min = 141.22
 avg = 162.48
 max = 165.01
 Model F test: Equal FMI
 Within VCE type: OLS
 F(11, 165.0) = 14.58
 Prob > F = 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4226.848	11245.95	0.38	0.708	-17978.01 26431.71
Sex					
Men	67727.49	9226.846	7.34	0.000	49509.41 85945.56
Sex#c.NFLw1w3tracklow					
Men	10171.62	15583.31	0.65	0.515	-20596.79 40940.04
Sex	0 (omitted)				
w1Age	-1925.367	454.3164	-4.24	0.000	-2822.392 -1028.343
Race	-47091.24	8788.233	-5.36	0.000	-64445.96 -29736.51
PovStat	-2587.675	8636.384	-0.30	0.765	-19639.82 14464.47
TIME_V1SCAN	-6.700556	6.329931	-1.06	0.291	-19.19883 5.797721
w1BMI	695.1048	615.9221	1.13	0.261	-521.0025 1911.212
w1TotalD	290.7775	424.0217	0.69	0.494	-547.4731 1129.028
w1Albumin	2950.968	14646.31	0.20	0.841	-25967.37 31869.31
w1EosinPct	485.6175	1885.229	0.26	0.797	-3236.913 4208.148
_cons	743133.7	81512.55	9.12	0.000	582188.8 904078.6

908 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0130	
Largest FMI	=	0.1123	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	104.28
		avg	158.23
		max	164.94
Model F test: Equal FMI	F(11, 164.8)	=	8.60
Within VCE type: OLS	Prob > F	=	0.0000

	WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow		720.0612	10201.3	0.07	0.944	-19422.57 20862.7
Sex						
Men		57410.94	8369.062	6.86	0.000	40886.23 73935.65
Sex#c.NFLw1w3tracklow						
Men		-882.2908	14126.08	-0.06	0.950	-28773.67 27009.09
Sex		0 (omitted)				
w1Age		-724.6696	411.9167	-1.76	0.080	-1537.986 88.64708
Race		-14954.2	8043.216	-1.86	0.065	-30844.63 936.2427
PovStat		-3891.018	7831.424	-0.50	0.620	-19354 11571.97
TIME_V1SCAN		-10.59316	5.741309	-1.85	0.067	-21.92943 .7431118
w1BMI		172.7804	558.4293	0.31	0.757	-929.8212 1275.382
w1TotalD		503.3786	395.5554	1.27	0.206	-280.9982 1287.756
w1Albumin		-276.1651	13273.41	-0.02	0.983	-26483.87 25931.54
w1EosinPct		-2054.359	1714.811	-1.20	0.233	-5440.753 1332.034
_cons		503821.7	73970.83	6.81	0.000	357763.5 649880

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911 . //ANALYSIS B//

912 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0207	
Largest FMI	=	0.1906	
Complete DF	=	166	
DF adjustment: Small sample	DF:	min	65.92
		avg	154.48
		max	164.02
Model F test: Equal FMI	F(12, 163.7)	=	11.92
Within VCE type: OLS	Prob > F	=	0.0000

	Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow		-93.85523	68.33077	-1.37	0.171	-228.7801 41.06966
Sex						
Men		-90.29266	69.32706	-1.30	0.195	-227.1813 46.59593
Sex#c.NFLw1w3tracklow						
Men		143.0659	94.6129	1.51	0.132	-43.75037 329.8822
Sex		0 (omitted)				
w1Age		-7.393133	2.761755	-2.68	0.008	-12.84633 -1.939939

Race	-82.24721	57.30475	-1.44	0.153	-195.4671	30.9727
PovStat	-136.3407	52.49761	-2.60	0.010	-240.0012	-32.68013
TIME_V1SCAN	.0285738	.0386977	0.74	0.461	-.0478398	.1049873
w1BMI	5.957236	3.74586	1.59	0.114	-1.439209	13.35368
w1TotalD	-.6119337	2.767331	-0.22	0.826	-6.137221	4.913354
w1Albumin	151.415	89.02106	1.70	0.091	-24.3608	327.1907
w1EosinPct	-1.426279	11.57879	-0.12	0.902	-24.29991	21.44735
ICV_volM2	.001665	.0002213	7.52	0.000	.0012281	.002102
_cons	1136.108	594.3606	1.91	0.058	-37.5121	2309.728

913 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Alb

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0123
 Largest FMI = 0.0910
 Complete DF = 166
 DF adjustment: Small sample
 DF: min = 116.99
 avg = 158.58
 max = 164.03
 Model F test: Equal FMI
 Within VCE type: OLS
 F(12, 163.9) = 14.33
 Prob > F = 0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-100.1753	70.19584	-1.43	0.155	-238.7854 38.43474
Sex					
Men	-190.6319	71.18562	-2.68	0.008	-331.1911 -50.07258
Sex#c.NFLw1w3tracklow					
Men	222.621	97.14079	2.29	0.023	30.8124 414.4297
Sex	0 (omitted)				
w1Age	-4.809744	2.837116	-1.70	0.092	-10.41182 .792335
Race	-101.9333	58.33529	-1.75	0.083	-217.1455 13.2789
PovStat	-112.276	53.86179	-2.08	0.039	-218.6295 -5.922485
TIME_V1SCAN	.0565065	.0396762	1.42	0.156	-.0218376 .1348506
w1BMI	5.707548	3.841953	1.49	0.139	-1.87855 13.29364
w1TotalD	-2.57182	2.697167	-0.95	0.342	-7.91342 2.76978
w1Albumin	94.89125	91.34166	1.04	0.300	-85.46578 275.2483
w1EosinPct	3.21132	11.94833	0.27	0.788	-20.39939 26.82203
ICV_volM2	.0021057	.0002271	9.27	0.000	.0016572 .0025542
_cons	972.8395	609.4718	1.60	0.112	-230.5982 2176.277

914 .

915 . //ANALYSIS C//
 916 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Alb

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0049
 Largest FMI = 0.0563
 Complete DF = 166
 DF adjustment: Small sample
 DF: min = 139.28
 avg = 161.86
 max = 164.03
 Model F test: Equal FMI
 Within VCE type: OLS
 F(12, 164.0) = 1.59
 Prob > F = 0.0998

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-2.466883	.8822841	-2.80	0.006	-4.20899	-.724776
Sex Men	-.6095763	.8962242	-0.68	0.497	-2.3792	1.160047
Sex#c.NFLw1w3tracklow Men	2.555681	1.223102	2.09	0.038	.1406267	4.970735
Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1TotalD w1Albumin w1EosinPct ICV_volM2 _cons	0 .0475646 1.259775 .8231326 -.0004926 .0604149 .0034922 .6497126 .0987773 2.41e-06 -5.906355	(omitted) .035697 .7320494 .6778841 .0004992 .0484047 .0333879 1.150644 .1475744 2.86e-06 7.674217	1.33 1.72 1.21 -0.99 1.25 0.10 0.56 0.67 0.84 -0.77	0.185 0.087 0.226 0.325 0.214 0.917 0.573 0.504 0.401 0.443	-.0229202 -.1858484 .5153747 -.0014782 .0351626 -.0625204 .1559924 .1926152 	.1180494 2.705398 2.16164 .0004931 .0695048 2.9217 .3901699 8.05e-06 9.246754

```

917 .
918 . save, replace
      file finaldata_imputed.dta saved

919 .
920 . *****MODEL 6: MODEL 2+lifestyle/health-related factors*****
921 .
922 .
923 . //Overall//
924 .
925 . use finaldata_imputed,clear

926 .
927 .
928 . //ANALYSIS A//
929 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_f

```

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0014
	Largest FMI	=	0.0134
	Complete DF	=	169
DF adjustment: Small sample	DF:	min	= 163.70
		avg	= 166.66
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	16.10
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	4528.792	15468.67	0.29	0.770	-26010.52	35068.1
Sex	136204.5	13735.54	9.92	0.000	109086.9	163322.1
w1Age	-2189.758	840.0312	-2.61	0.010	-3848.207	-531.308
Race	-70284.57	14273.41	-4.92	0.000	-98464.2	-42104.93
PovStat	-721.7827	16193.84	-0.04	0.965	-32692.81	31249.25
TIME_V1SCAN	-22.95944	11.50877	-1.99	0.048	-45.6809	-.2379779
w1BMI	553.2584	1074.673	0.51	0.607	-1568.441	2674.958
w1currdrugs	-4490.304	17452.48	-0.26	0.797	-38951.28	29970.67
w1SRH	13253.13	8835.833	1.50	0.136	-4191.175	30697.43
_cons	1150013	70075.57	16.41	0.000	1011665	1288361

```
930 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1
```

Multiple-imputation estimates
Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0039
		Largest FMI	=	0.0276
		Complete DF	=	169
DF adjustment:	Small sample	DF: min	=	157.96
		avg	=	165.81
		max	=	167.00
Model F test:	Equal FMI	F(9, 167.0)	=	18.98
Within VCE type:	OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	6991.222	8206.634	0.85	0.395	-9210.931 23193.38
Sex	69923.3	7286.203	9.60	0.000	55538.36 84308.24
w1Age	-1974.793	445.9262	-4.43	0.000	-2855.183 -1094.402
Race	-48640.68	7578.386	-6.42	0.000	-63602.73 -33678.63
PovStat	-1937.589	8597.06	-0.23	0.822	-18910.76 15035.58
TIME_V1SCAN	-8.781889	6.118609	-1.44	0.153	-20.86219 3.298412
w1BMI	369.1969	570.5103	0.65	0.518	-757.1625 1495.556
w1currdrugs	-11414.73	9322.236	-1.22	0.223	-29827.04 6997.584
w1SRH	8520.577	4689.054	1.82	0.071	-736.9418 17778.1
_cons	694422.3	37201.26	18.67	0.000	620975.7 767868.8

```
931 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1
```

Multiple-imputation estimates
Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0017
		Largest FMI	=	0.0101
		Complete DF	=	169
DF adjustment:	Small sample	DF: min	=	164.74
		avg	=	166.67
		max	=	167.02
Model F test:	Equal FMI	F(9, 167.0)	=	10.51
Within VCE type:	OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-987.1107	7558.975	-0.13	0.896	-15910.57 13936.35
Sex	56491.35	6713.907	8.41	0.000	43236.23 69746.48
w1Age	-656.6403	410.4871	-1.60	0.112	-1467.054 153.773
Race	-19447.68	6977.507	-2.79	0.006	-33223.29 -5672.074
PovStat	-3269.351	7914.099	-0.41	0.680	-18893.97 12355.26
TIME_V1SCAN	-12.59981	5.630325	-2.24	0.027	-23.71583 -1.483797
w1BMI	222.7601	525.0333	0.42	0.672	-813.7974 1259.318
w1currdrugs	8242.179	8513.868	0.97	0.334	-8568.185 25052.54
w1SRH	3893.539	4320.311	0.90	0.369	-4635.998 12423.08
_cons	447208.3	34234.1	13.06	0.000	379620.9 514795.6

932 .

933 . //ANALYSIS B//

934 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0025	
Largest FMI	=	0.0223	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 159.41
		avg	= 165.36
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	13.89
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-20.03958	51.06491	-0.39	0.695	-120.8599 80.7807
Sex	-24.96964	60.50074	-0.41	0.680	-144.4198 94.48052
w1Age	-7.540151	2.776242	-2.72	0.007	-13.02145 -2.05885
Race	-79.37003	51.30312	-1.55	0.124	-180.6615 21.9215
PovStat	-144.3298	53.45735	-2.70	0.008	-249.8736 -38.78594
TIME_V1SCAN	.0203395	.0382689	0.53	0.596	-.0552173 .0958964
w1BMI	2.818973	3.552061	0.79	0.429	-4.194098 9.832044
w1currdrugs	-37.02792	57.87451	-0.64	0.523	-151.3276 77.27178
w1SRH	-20.04704	29.35237	-0.68	0.496	-77.99926 37.90518
ICV_volum2	.0016589	.0002235	7.42	0.000	.0012176 .0021001
_cons	1948.801	358.696	5.43	0.000	1240.605 2656.997

935 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0049	
Largest FMI	=	0.0429	
Complete DF	=	168	
DF adjustment: Small sample	DF:	min	= 148.93
		avg	= 164.36
		max	= 166.03
Model F test: Equal FMI	F(10, 166.0)	=	16.38
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	15.84739	52.60741	0.30	0.764	-88.01842 119.7132
Sex	-102.0528	62.33791	-1.64	0.104	-225.1306 21.02497
w1Age	-4.830482	2.859947	-1.69	0.093	-10.47705 .8160814
Race	-81.37739	52.87378	-1.54	0.126	-185.7708 23.01599
PovStat	-122.1091	55.06909	-2.22	0.028	-230.8351 -13.38311
TIME_V1SCAN	.0571968	.0394389	1.45	0.149	-.0206706 .1350642
w1BMI	2.607639	3.659439	0.71	0.477	-4.617444 9.832721
w1currdrugs	-48.48653	60.23406	-0.80	0.422	-167.5103 70.53722
w1SRH	-28.81932	30.24729	-0.95	0.342	-88.53874 30.9001
ICV_volum2	.0020964	.0002302	9.11	0.000	.0016418 .002551
_cons	1551.28	369.5237	4.20	0.000	821.7063 2280.854

936 .

937 . //ANALYSIS C//

938 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_vo

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	179
		Average RVI	=	0.0050
		Largest FMI	=	0.0486
		Complete DF	=	168
DF adjustment:	Small sample	DF: min	=	145.61
		avg	=	164.08
		max	=	166.03
Model F test:	Equal FMI	F(10, 166.0)	=	1.52
Within VCE type:	OLS	Prob > F	=	0.1357

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.209791	.658578	-1.84	0.068	-2.510059 .0904771
Sex	.4058698	.780158	0.52	0.604	-1.13444 1.946179
w1Age	.0528622	.0358094	1.48	0.142	-.0178387 .1235631
Race	1.082869	.6614214	1.64	0.103	-.2230175 2.388756
PovStat	.6776253	.6897029	0.98	0.327	-.6841034 2.039354
TIME_V1SCAN	-.0005404	.0004935	-1.10	0.275	-.0015147 .000434
w1BMI	.0283647	.0458272	0.62	0.537	-.0621156 .118845
w1currdrugs	.109589	.7561747	0.14	0.885	-1.384907 1.604086
w1SRH	-.4685291	.3784337	-1.24	0.217	-1.215691 .2786332
ICV_volum2	2.66e-06	2.88e-06	0.92	0.358	-3.04e-06 8.35e-06
_cons	-1.757867	4.626849	-0.38	0.704	-10.89297 7.37724

939 .

940 . save, replace
 file finaldata_imputed.dta saved

941 .

942 .

943 . //Males//

944 .

945 .

946 . use finaldata_imputed,clear

947 .

948 .

949 . //ANALYSIS A//

950 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_f

Multiple-imputation estimates
 Linear regression

		Imputations	=	5
		Number of obs	=	80
		Average RVI	=	0.0011
		Largest FMI	=	0.0084
		Complete DF	=	71
DF adjustment:	Small sample	DF: min	=	68.50
		avg	=	68.99
		max	=	69.08
Model F test:	Equal FMI	F(8, 69.1)	=	2.80
Within VCE type:	OLS	Prob > F	=	0.0095

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4558.855	26636.86	0.17	0.865	-48579.17 57696.88
Sex	0	(omitted)			
w1Age	-2398.528	1568.935	-1.53	0.131	-5528.418 731.363
Race	-94429.63	26483.87	-3.57	0.001	-147262.9 -41596.4
PovStat	16233.74	28413.36	0.57	0.570	-40448.59 72916.06
TIME_V1SCAN	-43.60968	20.65409	-2.11	0.038	-84.81397 -2.405397
w1BMI	761.4007	2543.285	0.30	0.766	-4312.21 5835.012
w1currdrugs	12561.95	33395.84	0.38	0.708	-54069.59 79193.5
w1SRH	5221.963	16491.24	0.32	0.752	-27676.56 38120.48
_cons	1495504	117039	12.78	0.000	1262022 1728986

951 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0021	
Largest FMI	=	0.0201	
Complete DF	=	71	
DF adjustment: Small sample	DF:	min	= 67.39
		avg	= 68.87
		max	= 69.08
Model F test: Equal FMI	F(8, 69.1)	=	4.92
Within VCE type: OLS	Prob > F	=	0.0001

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	10294.09	13767.1	0.75	0.457	-17169.97 37758.15
Sex	0	(omitted)			
w1Age	-2462.988	810.7999	-3.04	0.003	-4080.456 -845.5192
Race	-62193.8	13705.81	-4.54	0.000	-89537.18 -34850.43
PovStat	3693.161	14682.59	0.25	0.802	-25597.21 32983.53
TIME_V1SCAN	-19.04606	10.66586	-1.79	0.079	-40.32344 2.231318
w1BMI	810.8869	1314.475	0.62	0.539	-1811.364 3433.138
w1currdrugs	-2588.574	17358.45	-0.15	0.882	-37232.48 32055.33
w1SRH	8131.849	8522.907	0.95	0.343	-8870.535 25134.23
_cons	875792.7	60488.05	14.48	0.000	755124.8 996460.6

952 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0016	
Largest FMI	=	0.0083	
Complete DF	=	71	
DF adjustment: Small sample	DF:	min	= 68.51
		avg	= 68.96
		max	= 69.07
Model F test: Equal FMI	F(8, 69.1)	=	1.70
Within VCE type: OLS	Prob > F	=	0.1150

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-970.4098	12926.44	-0.08	0.940	-26757.58
Sex	0	(omitted)			
w1Age	-506.6076	761.5729	-0.67	0.508	-2025.902
Race	-30106.47	12856.82	-2.34	0.022	-55755.31
PovStat	2787.852	13793.94	0.20	0.840	-24730.48
TIME_V1SCAN	-22.77982	10.04931	-2.27	0.027	-42.83018
w1BMI	-100.9539	1234.069	-0.08	0.935	-2562.808
w1currdrugs	14905.01	16154.96	0.92	0.359	-17323.44
w1SRH	-2005.309	8003.231	-0.25	0.803	-17971.14
_cons	601956.6	56804.66	10.60	0.000	488635.3
					715277.8

953 .

954 .

955 . //ANALYSIS B//

956 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0038	
Largest FMI	=	0.0176	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 66.68
		avg	= 67.81
		max	= 68.07
Model F test: Equal FMI	F(9, 68.1)	=	8.89
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	57.80484	79.25691	0.73	0.468	-100.3477
Sex	0	(omitted)			
w1Age	-5.788245	4.673797	-1.24	0.220	-15.11487
Race	44.04447	88.41155	0.50	0.620	-132.383
PovStat	-272.2041	84.76766	-3.21	0.002	-441.3626
TIME_V1SCAN	-0.0304919	.0632545	-0.48	0.631	-.1567595
w1BMI	4.939627	7.571082	0.65	0.516	-10.16794
w1currdrugs	-124.9472	100.0192	-1.25	0.216	-324.5604
w1SRH	112.9764	49.0749	2.30	0.024	15.04982
ICV_volM2	.002181	.0003223	6.77	0.000	.0015379
_cons	771.5262	640.2581	1.21	0.232	-506.0649
					2049.117

957 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0074	
Largest FMI	=	0.0262	
Complete DF	=	70	
DF adjustment: Small sample	DF:	min	= 65.76
		avg	= 67.51
		max	= 68.08
Model F test: Equal FMI	F(9, 68.0)	=	10.22
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	140.0916	79.96308	1.75	0.084	-19.47208	299.6553
Sex	0	(omitted)				
w1Age	-4.765907	4.71712	-1.01	0.316	-14.17924	4.647429
Race	47.85984	89.4893	0.53	0.595	-130.7468	226.4665
PovStat	-234.1276	85.56855	-2.74	0.008	-404.8905	-63.36467
TIME_V1SCAN	.0369006	.0640666	0.58	0.567	-.0910212	.1648224
w1BMI	11.52019	7.636482	1.51	0.136	-3.717914	26.7583
w1currdrugs	-174.1672	101.4567	-1.72	0.091	-376.7123	28.37785
w1SRH	70.69022	49.50899	1.43	0.158	-28.10356	169.484
ICV_volum2	.0024862	.000325	7.65	0.000	.0018376	.0031348
_cons	278.6121	645.7008	0.43	0.667	-1009.836	1567.06

958 .

959 . //ANALYSIS C//

960 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_volum2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	80	
Average RVI	=	0.0051	
Largest FMI	=	0.0406	
Complete DF	=	70	
DF adjustment:	Small sample		
DF:	min	=	63.96
	avg	=	67.58
	max	=	68.08
Model F test:	Equal FMI	F(9, 68.1)	= 0.49
Within VCE type:	OLS	Prob > F	= 0.8751

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-.4074513	.7874336	-0.52	0.607	-1.978722	1.163819
Sex	0	(omitted)				
w1Age	-.0114309	.046403	-0.25	0.806	-.1040257	.081164
Race	.9021068	.8790136	1.03	0.308	-.8520272	2.656241
PovStat	.332931	.8413284	0.40	0.694	-1.345911	2.011773
TIME_V1SCAN	-.0004637	.0006249	-0.74	0.461	-.0017108	.0007834
w1BMI	-.0483587	.0752267	-0.64	0.522	-.198468	.1017507
w1currdrugs	.5350134	1.009313	0.53	0.598	-1.481343	2.55137
w1SRH	-.3127776	.4875664	-0.64	0.523	-1.285688	.6601327
ICV_volum2	3.48e-08	3.20e-06	0.01	0.991	-6.36e-06	6.43e-06
_cons	7.913824	6.363899	1.24	0.218	-4.785043	20.61269

961 .

962 . save, replace
 file finaldata_imputed.dta saved

963 .

964 .

```

965 .
966 . //Females//
967 .
968 . use finaldata_imputed,clear

969 .
970 .
971 . //ANALYSIS A//
972 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_f

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     99
Average RVI     =  0.0042
Largest FMI     =  0.0366
Complete DF      =      90
DF adjustment: Small sample
DF:   min      =  82.86
      avg      =  87.36
      max      =  88.06
Model F test: Equal FMI
Within VCE type: OLS
F(  8,  88.0) =  3.42
Prob > F        =  0.0018

```

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-201.5553	18266.3	-0.01	0.991	-36501.74 36098.63
Sex	0	(omitted)			
w1Age	-2363.882	941.4095	-2.51	0.014	-4234.758 -493.0061
Race	-54522.93	16086.18	-3.39	0.001	-86490.63 -22555.24
PovStat	-17391.16	18853.56	-0.92	0.359	-54859.1 20076.77
TIME_V1SCAN	-2.795208	13.28453	-0.21	0.834	-29.19549 23.60507
w1BMI	870.3792	1121.015	0.78	0.440	-1357.489 3098.247
w1currdrugs	-9393.929	19656.89	-0.48	0.634	-48491.65 29703.79
w1SRH	22416.72	9989.452	2.24	0.027	2564.96 42268.47
_cons	1228687	76610.22	16.04	0.000	1076433 1380942

```

973 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
Linear regression
Imputations      =      5
Number of obs    =     99
Average RVI     =  0.0074
Largest FMI     =  0.0545
Complete DF      =      90
DF adjustment: Small sample
DF:   min      =  79.10
      avg      =  86.74
      max      =  87.94
Model F test: Equal FMI
Within VCE type: OLS
F(  8,  88.0) =  5.07
Prob > F        =  0.0000

```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	2639.947	10157.88	0.26	0.796	-17546.92 22826.82
Sex	0	(omitted)			
w1Age	-1793.384	523.886	-3.42	0.001	-2834.553 -752.2146
Race	-40251.28	8944.843	-4.50	0.000	-58027.44 -22475.11
PovStat	-8283.047	10488.63	-0.79	0.432	-29127.91 12561.82
TIME_V1SCAN	.2786211	7.391916	0.04	0.970	-14.41184 14.96908
w1BMI	536.3357	624.0597	0.86	0.392	-703.9712 1776.643
w1currdrugs	-13282.3	11020.78	-1.21	0.232	-35218.2 8653.59
w1SRH	9965.541	5556.03	1.79	0.076	-1076.049 21007.13
_cons	728468.7	42664.92	17.07	0.000	643670.4 813266.9

974 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0021
	Largest FMI	=	0.0132
	Complete DF	=	90
DF adjustment:	Small sample	DF:	
		min	= 86.68
		avg	= 87.83
		max	= 88.04
Model F test:	Equal FMI	F(8, 88.1)	= 1.95
Within VCE type:	OLS	Prob > F	= 0.0626

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-4985.36	8909.698	-0.56	0.577	-22691.49 12720.77
Sex	0	(omitted)			
w1Age	-888.7517	458.8199	-1.94	0.056	-1800.555 23.05102
Race	-11267.87	7845.318	-1.44	0.154	-26858.73 4322.978
PovStat	-9095.26	9190.589	-0.99	0.325	-27359.62 9169.103
TIME_V1SCAN	-2.67622	6.481291	-0.41	0.681	-15.55662 10.20418
w1BMI	522.8452	546.0395	0.96	0.341	-562.2959 1607.986
w1currdrugs	7755.214	9477.104	0.82	0.415	-11082.54 26592.97
w1SRH	10855.8	4876.437	2.23	0.029	1164.711 20546.9
_cons	469149.7	37303.33	12.58	0.000	395016.9 543282.6

975 .

976 . //ANALYSIS B//

977 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_v

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0185
	Largest FMI	=	0.1540
	Complete DF	=	89
DF adjustment:	Small sample	DF:	
		min	= 54.17
		avg	= 83.40
		max	= 87.05
Model F test:	Equal FMI	F(9, 86.9)	= 5.77
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-89.17847	60.43356	-1.48	0.144	-209.2956 30.9387
Sex	0	(omitted)			
w1Age	-8.388067	3.138558	-2.67	0.009	-14.62669 -2.14945
Race	-141.494	57.18632	-2.47	0.015	-255.1575 -27.83042
PovStat	-89.80405	62.6435	-1.43	0.155	-214.323 34.71489
TIME_V1SCAN	.034364	.0439415	0.78	0.436	-.0529759 .121704
w1BMI	2.616055	3.730383	0.70	0.485	-4.799988 10.0321
w1currdrugs	-5.935775	69.34629	-0.09	0.932	-144.9569 133.0854
w1SRH	-87.39185	34.26844	-2.55	0.013	-155.5036 -19.28012
ICV_volum2	.0012746	.0002972	4.29	0.000	.0006839 .0018653
_cons	2600.922	478.2295	5.44	0.000	1650.222 3551.621

978 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0134
	Largest FMI	=	0.1147
	Complete DF	=	89
DF adjustment: Small sample	DF:	min	= 63.57
		avg	= 84.47
		max	= 87.06
Model F test: Equal FMI	F(9, 87.0)	=	7.37
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-76.80493	65.52882	-1.17	0.244	-207.0493 53.4394
Sex	0	(omitted)			
w1Age	-5.268638	3.400377	-1.55	0.125	-12.02749 1.490213
Race	-135.2421	62.00663	-2.18	0.032	-258.4863 -11.99789
PovStat	-54.9562	67.89171	-0.81	0.420	-189.9048 79.99242
TIME_V1SCAN	.0525673	.047651	1.10	0.273	-.0421458 .1472805
w1BMI	1.147506	4.036642	0.28	0.777	-6.876707 9.17172
w1currdrugs	.3012559	73.69542	0.00	0.997	-146.9415 147.544
w1SRH	-90.77222	37.16005	-2.44	0.017	-164.6314 -16.91308
ICV_volM2	.0019418	.0003221	6.03	0.000	.0013015 .0025821
_cons	1857.507	517.6005	3.59	0.001	828.6149 2886.399

979 .

980 . //ANALYSIS C//

981 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH ICV_

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	99
	Average RVI	=	0.0031
	Largest FMI	=	0.0276
	Complete DF	=	89
DF adjustment: Small sample	DF:	min	= 83.55
		avg	= 86.64
		max	= 87.06
Model F test: Equal FMI	F(9, 87.0)	=	2.08
Within VCE type: OLS	Prob > F	=	0.0403

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.045521	1.029248	-1.99	0.050	-4.091244 .0002016
Sex	0	(omitted)			
w1Age	.1155484	.0533554	2.17	0.033	.0094982 .2215986
Race	1.264846	.9738557	1.30	0.197	-.6707845 3.200477
PovStat	1.079635	1.064913	1.01	0.313	-1.03701 3.196279
TIME_V1SCAN	-.0005989	.0007479	-0.80	0.425	-.0020855 .0008876
w1BMI	.0957504	.0632211	1.51	0.134	-.0299109 .2214118
w1currdrugs	.3318441	1.108382	0.30	0.765	-1.872468 2.536156
w1SRH	-.8185807	.583589	-1.40	0.164	-1.978516 .3413549
ICV_volM2	7.66e-06	5.06e-06	1.51	0.133	-2.39e-06 .0000177
_cons	-12.34509	8.110387	-1.52	0.132	-28.46572 3.775544

```

982 .
983 . save, replace
  file finaldata_imputed.dta saved

984 .
985 . *****INTERACTION BY Sex*****
986 .
987 .
988 . //ANALYSIS A//
989 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if s

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0013
	Largest FMI	=	0.0134
	Complete DF	=	168
DF adjustment:	Small sample	DF:	min = 162.74
			avg = 165.70
			max = 166.03
Model F test:	Equal FMI	F(10, 166.0)	= 14.41
Within VCE type:	OLS	Prob > F	= 0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	4197.755	20691.2	0.20	0.839	-36654.03	45049.54
Sex						
Men	135967.8	16898.46	8.05	0.000	102604.2	169331.4
Sex#c.NFLw1w3tracklow						
Men	699.6978	28939.91	0.02	0.981	-56437.97	57837.36
Sex	0 (omitted)					
w1Age	-2191.238	844.7338	-2.59	0.010	-3859.045	-523.4315
Race	-70274.8	14321.35	-4.91	0.000	-98550.32	-41999.28
PovStat	-709.0996	16250.58	-0.04	0.965	-32793.57	31375.38
TIME_V1SCAN	-22.94407	11.56037	-1.98	0.049	-45.76841	.1197258
w1BMI	559.6721	1110.163	0.50	0.615	-1632.189	2751.534
w1currdrugs	-4486.985	17507.76	-0.26	0.798	-39058.66	30084.69
w1SRH	13249.06	8863.664	1.49	0.137	-4250.963	30749.07
_cons	1286164	66799.4	19.25	0.000	1154278	1418050

```

990 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_f

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	179
	Average RVI	=	0.0038
	Largest FMI	=	0.0296
	Complete DF	=	168
DF adjustment:	Small sample	DF:	min = 156.05
			avg = 164.81
			max = 165.99
Model F test:	Equal FMI	F(10, 166.0)	= 17.06
Within VCE type:	OLS	Prob > F	= 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	2352.335	10966.64	0.21	0.830	-19299.87 24004.54
Sex					
Men	66607.1	8953.516	7.44	0.000	48929.64 84284.55
Sex#c.NFLw1w3tracklow					
Men	9806.197	15336.43	0.64	0.523	-20473.5 40085.9
Sex	0 (omitted)				
w1Age	-1995.473	447.9086	-4.46	0.000	-2879.818 -1111.129
Race	-48505.75	7594.484	-6.39	0.000	-63500.25 -33511.26
PovStat	-1758.303	8616.827	-0.20	0.839	-18771.25 15254.64
TIME_V1SCAN	-8.567104	6.139048	-1.40	0.165	-20.68831 3.554106
w1BMI	459.2478	588.572	0.78	0.436	-702.8196 1621.315
w1currdrugs	-11353.56	9350.021	-1.21	0.226	-29822.49 7115.37
w1SRH	8463.642	4697.984	1.80	0.073	-811.9119 17739.2
_cons	763586.2	35425.69	21.55	0.000	693641.8 833530.5

991 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH if sample_fi

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0016
 Largest FMI = 0.0098
 Complete DF = 168
 DF adjustment: Small sample DF: min = 163.86
 avg = 165.72
 max = 166.01
 Model F test: Equal FMI F(10, 166.0) = 9.40
 Within VCE type: OLS Prob > F = 0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-397.722	10111.7	-0.04	0.969	-20361.86 19566.42
Sex					
Men	56912.76	8258.063	6.89	0.000	40608.38 73217.14
Sex#c.NFLw1w3tracklow					
Men	-1245.744	14143.35	-0.09	0.930	-29169.82 26678.33
Sex	0 (omitted)				
w1Age	-654.0042	412.7812	-1.58	0.115	-1468.983 160.9744
Race	-19465.08	7000.62	-2.78	0.006	-33286.92 -5643.235
PovStat	-3291.933	7941.629	-0.41	0.679	-18971.59 12387.72
TIME_V1SCAN	-12.6272	5.655453	-2.23	0.027	-23.79332 -1.461079
w1BMI	211.3407	542.3846	0.39	0.697	-859.5202 1282.202
w1currdrugs	8236.337	8539.277	0.96	0.336	-8624.87 25097.54
w1SRH	3900.805	4333.76	0.90	0.369	-4655.659 12457.27
_cons	503794.8	32634.12	15.44	0.000	439363.4 568226.2

992 .

993 . //ANALYSIS B//

994 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0018	
Largest FMI	=	0.0165	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	= 160.72
		avg	= 164.61
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	12.95
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-88.27407	67.8426	-1.30	0.195	-222.2255	45.6774
Sex						
Men	-74.50011	68.50562	-1.09	0.278	-209.7606	60.76039
Sex#c.NFLw1w3tracklow						
Men	144.2531	94.89877	1.52	0.130	-43.1194	331.6255
Sex	0 (omitted)					
w1Age	-7.841779	2.772567	-2.83	0.005	-13.31607	-2.367492
Race	-77.01081	51.12217	-1.51	0.134	-177.9494	23.92775
PovStat	-141.6797	53.27864	-2.66	0.009	-246.8754	-36.48396
TIME_V1SCAN	.0235816	.0381808	0.62	0.538	-.0518048	.098968
w1BMI	4.140967	3.643536	1.14	0.257	-3.053023	11.33496
w1currdrugs	-36.07508	57.49638	-0.63	0.531	-149.6209	77.47073
w1SRH	-20.9442	29.24359	-0.72	0.475	-78.6842	36.79579
ICV_volum2	.0016631	.0002226	7.47	0.000	.0012235	.0021027
_cons	1906.752	382.0598	4.99	0.000	1152.395	2661.109

995 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0034	
Largest FMI	=	0.0316	
Complete DF	=	167	
DF adjustment: Small sample	DF:	min	= 154.17
		avg	= 164.03
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	15.79
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-90.08033	69.27418	-1.30	0.195	-226.8585	46.69783
Sex						
Men	-178.9442	69.95504	-2.56	0.011	-317.0667	-40.82168
Sex#c.NFLw1w3tracklow						
Men	223.9397	96.90182	2.31	0.022	32.61219	415.2672
Sex	0 (omitted)					
w1Age	-5.298715	2.830937	-1.87	0.063	-10.88825	.2908209
Race	-77.71535	52.21736	-1.49	0.139	-180.8169	25.38625

PovStat	-117.9947	54.39988	-2.17	0.032	-225.4042	-10.58517
TIME_V1SCAN	.0622297	.0390007	1.60	0.112	-.0147759	.1392353
w1BMI	4.65995	3.720373	1.25	0.212	-2.685756	12.00566
w1currdrugs	-47.00412	59.149	-0.79	0.428	-163.8512	69.84297
w1SRH	-30.21204	29.86826	-1.01	0.313	-89.1857	28.76161
ICV_volM2	.0021029	.0002273	9.25	0.000	.001654	.0025517
_cons	1422.711	390.1013	3.65	0.000	652.4763	2192.945

996 .

997 . //ANALYSIS C//

998 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI w1currdrugs w1SRH

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0034
	Largest FMI	=	0.0372
	Complete DF	=	167
DF adjustment: Small sample	DF:	min	= 151.29
		avg	= 163.83
		max	= 165.03
Model F test: Equal FMI	F(11, 165.0)	=	1.84
Within VCE type: OLS	Prob > F	=	0.0511

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.454097	.8688149	-2.82	0.005	-4.169524 -.7386706
Sex					
Men	-.4973492	.8773114	-0.57	0.572	-2.229551 1.234852
Sex#c.NFLw1w3tracklow					
Men	2.630581	1.215229	2.16	0.032	.2311811 5.02998
Sex	0 (omitted)				
w1Age	.0473629	.0355115	1.33	0.184	-.0227527 .1174785
Race	1.125861	.6545247	1.72	0.087	-.1664644 2.418187
PovStat	.7259769	.6825641	1.06	0.289	-.621715 2.073669
TIME_V1SCAN	-.0004813	.0004889	-0.98	0.326	-.0014466 .000484
w1BMI	.052475	.0466716	1.12	0.263	-.0396762 .1446262
w1currdrugs	.1272029	.7439449	0.17	0.864	-1.34266 1.597066
w1SRH	-.4848861	.3744264	-1.30	0.197	-1.22417 .2543974
ICV_volM2	2.73e-06	2.85e-06	0.96	0.339	-2.90e-06 8.36e-06
_cons	-1.663633	4.893419	-0.34	0.734	-11.32545 7.998184

999 .

1000 . save, replace
file finaldata_imputed.dta saved

1001 .

1002 .

```

1003 .
1004 . ///////////////////////////////////////////////////////////////////////////////////////////////////////////////////
>
1005 . ////////////////////////////////////////////////////////////////////TABLES 4 AND S4-S5/////////////////////////////////////////////////////////////////
>
1006 . *****TABLE 3: NFLw1w3tracklow, MODELS 1 AND 2*****
1007 .
1008 . **ANALYSES A-C, TOTAL POPULATION**
1009 .
1010 . **Model 1**
1011 .
1012 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

1013 .
1014 . //ANALYSIS A//
1015 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

```

Source	SS	df	MS	Number of obs	=	179
Model	1.1263e+12	6	1.8771e+11	F(6, 172)	=	23.80
Residual	1.3566e+12	172	7.8874e+09	Prob > F	=	0.0000
				R-squared	=	0.4536
Total	2.4829e+12	178	1.3949e+10	Adj R-squared	=	0.4346
				Root MSE	=	88811

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	6771.031	15310.48	0.44	0.659	.0276475
Sex	137222.5	13464.06	10.19	0.000	.5792689
w1Age	-2097.394	832.2298	-2.52	0.013	-.161707
Race	-71458.98	14063.98	-5.08	0.000	-.2987855
PovStat	-3658.003	15879.17	-0.23	0.818	-.0144007
TIME_V1SCAN	-21.51427	11.32369	-1.90	0.059	-.1154225
_cons	1190396	59118.56	20.14	0.000	.

```
1016 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta
```

Source	SS	df	MS	Number of obs	=	179
Model	3.6868e+11	6	6.1447e+10	F(6, 172)	=	27.20
Residual	3.8856e+11	172	2.2591e+09	Prob > F	=	0.0000
				R-squared	=	0.4869
Total	7.5724e+11	178	4.2542e+09	Adj R-squared	=	0.4690
				Root MSE	=	47530

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	9037.956	8193.81	1.10	0.272	.0668244
Sex	70962.32	7205.65	9.85	0.000	.5424328
w1Age	-1869.392	445.3898	-4.20	0.000	-.2609832
Race	-50518.56	7526.71	-6.71	0.000	-.3824874
PovStat	-2948.81	8498.159	-0.35	0.729	-.0210208
TIME_V1SCAN	-8.337926	6.060172	-1.38	0.171	-.081
_cons	717489.4	31638.86	22.68	0.000	.

1017 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	1.7542e+11	6	2.9236e+10	F(6, 172)	=	15.61
Residual	3.2223e+11	172	1.8734e+09	Prob > F	=	0.0000
Total	4.9764e+11	178	2.7958e+09	R-squared	=	0.3525
				Adj R-squared	=	0.3299
				Root MSE	=	43283

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-877.3316	7461.708	-0.12	0.907	-.0080018
Sex	56210.73	6561.839	8.57	0.000	.5300243
w1Age	-675.9694	405.5951	-1.67	0.097	-.1164119
Race	-18525.65	6854.213	-2.70	0.008	-.1730206
PovStat	-5069.724	7738.864	-0.66	0.513	-.0445805
TIME_V1SCAN	-11.69874	5.518707	-2.12	0.035	-.1401925
_cons	464513.9	28811.99	16.12	0.000	.

1018 .

1019 . //ANALYSIS B//

1020 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	11857309.7	7	1693901.39	F(7, 171)	=	19.82
Residual	14612774.1	171	85454.8195	Prob > F	=	0.0000
Total	26470083.9	178	148708.336	R-squared	=	0.4480
				Adj R-squared	=	0.4254
				Root MSE	=	292.33

Left_Hippocampus	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-14.24878	50.39653	-0.28	0.778	-.017819
Sex	-30.66038	59.54609	-0.51	0.607	-.0396402
w1Age	-7.216753	2.741313	-2.63	0.009	-.1704097
Race	-83.58077	50.53419	-1.65	0.100	-.1070318
PovStat	-133.734	52.28043	-2.56	0.011	-.1612443
TIME_V1SCAN	.0126694	.0374994	0.34	0.736	.0208173
ICV_volum2	.0016551	.000221	7.49	0.000	.6098583
_cons	1983.026	342.2981	5.79	0.000	.

1021 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	14849774.3	7	2121396.33	F(7, 171)	=	23.31
Residual	15561453	171	91002.6492	Prob > F	=	0.0000
Total	30411227.3	178	170849.592	R-squared	=	0.4883
				Adj R-squared	=	0.4674
				Root MSE	=	301.67

Right_Hippocas~	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	21.41305	52.00671	0.41	0.681	.024983
Sex	-106.708	61.44859	-1.74	0.084	-.1287112
w1Age	-4.48918	2.828899	-1.59	0.114	-.0988963
Race	-87.37167	52.14876	-1.68	0.096	-.1043849
PovStat	-108.1448	53.9508	-2.00	0.047	-.121649
TIME_V1SCAN	.0475265	.0386975	1.23	0.221	.0728558
ICV_vo1M2	.0020857	.000228	9.15	0.000	.7169981
_cons	1566.782	353.2345	4.44	0.000	.

1022 .
1023 . //ANALYSIS C//
1024 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_vo1M2 if sample_final==1,beta

Source	SS	df	MS	Number of obs	=	179
Model	191.301133	7	27.3287332	F(7, 171)	=	1.92
Residual	2433.81021	171	14.2328082	Prob > F	=	0.0691
Total	2625.11134	178	14.7478165	R-squared	=	0.0729
				Adj R-squared	=	0.0349
				Root MSE	=	3.7726

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1.203905	.6503957	-1.85	0.066	-.1511822
Sex	.3378777	.7684759	0.44	0.661	.0438654
w1Age	.0527452	.0353782	1.49	0.138	.125066
Race	1.089808	.6521722	1.67	0.097	.1401393
PovStat	.8057497	.6747084	1.19	0.234	.0975543
TIME_V1SCAN	-.0006371	.000484	-1.32	0.190	-.1051116
ICV_vo1M2	2.34e-06	2.85e-06	0.82	0.413	.0866681
_cons	-1.397283	4.41755	-0.32	0.752	.

1025 .
1026 .
1027 . **Model 2**
1028 .
1029 . use finaldata_imputed,clear

1030 .
1031 .
1032 . //ANALYSIS A//
1033 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_final==1

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	170
DF adjustment: Small sample	DF: min	=	168.03
	avg	=	168.03
	max	=	168.03
Model F test:	F(8, 168.0)	=	359.10
Within VCE type:	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	5451.866	4958.569	1.10	0.273	-4337.253 15240.98
Sex	-13035.28	5880.061	-2.22	0.028	-24643.59 -1426.963
w1Age	-1700.105	268.801	-6.32	0.000	-2230.767 -1169.443
Race	5067.794	4939.625	1.03	0.306	-4683.927 14819.51
PovStat	832.2046	5111.765	0.16	0.871	-9259.351 10923.76
TIME_V1SCAN	-6.001159	3.674367	-1.63	0.104	-13.25503 1.252711
w1BMI	-47.08216	340.8488	-0.14	0.890	-719.9798 625.8154
ICV_volum2	.8343701	.0216213	38.59	0.000	.7916857 .8770545
_cons	128468.4	34538.69	3.72	0.000	60282.7 196654

1034 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	136.87
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	8057.899	4247.062	1.90	0.060	-326.574 16442.37
Sex	-1426.681	5036.328	-0.28	0.777	-11369.31 8515.949
w1Age	-1689.764	230.2306	-7.34	0.000	-2144.281 -1235.247
Race	-13468.84	4230.836	-3.18	0.002	-21821.28 -5116.398
PovStat	-873.7417	4378.275	-0.20	0.842	-9517.255 7769.772
TIME_V1SCAN	-.6537543	3.14713	-0.21	0.836	-6.866763 5.559254
w1BMI	177.4611	291.9402	0.61	0.544	-398.8821 753.8043
ICV_volum2	.4040867	.0185189	21.82	0.000	.3675271 .4406463
_cons	197313.6	29582.71	6.67	0.000	138911.9 255715.2

1035 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	123.56
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1240.926	3597.776	-0.34	0.731	-8343.592 5861.74
Sex	-12073.91	4266.381	-2.83	0.005	-20496.52 -3651.298
w1Age	-487.3605	195.0332	-2.50	0.013	-872.3917 -102.3293
Race	16127.47	3584.031	4.50	0.000	9051.939 23203
PovStat	-2968.787	3708.93	-0.80	0.425	-10290.89 4353.317
TIME_V1SCAN	-4.792936	2.666001	-1.80	0.074	-10.05611 .4702357
w1BMI	-158.4353	247.3088	-0.64	0.523	-646.6679 329.7973
ICV_volum2	.3777304	.0156877	24.08	0.000	.34676 .4087009
_cons	-12206.87	25060.15	-0.49	0.627	-61680.17 37266.43

1036 .

1037 . //ANALYSIS B//

1038 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	17.43
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-19.64415	50.7689	-0.39	0.699	-119.8712 80.58291
Sex	-22.7661	60.20371	-0.38	0.706	-141.6192 96.08698
w1Age	-7.424355	2.752151	-2.70	0.008	-12.8576 -1.991108
Race	-84.71814	50.57494	-1.68	0.096	-184.5623 15.12601
PovStat	-135.3682	52.33742	-2.59	0.011	-238.6918 -32.04464
TIME_V1SCAN	.0151931	.0376204	0.40	0.687	-.0590765 .0894627
w1BMI	3.177014	3.489821	0.91	0.364	-3.712528 10.06656
ICV_volum2	.0016448	.0002214	7.43	0.000	.0012078 .0020819
_cons	1902.791	353.6285	5.38	0.000	1204.664 2600.918

1039 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	20.46
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	16.20027	52.40674	0.31	0.758	-87.26018 119.6607
Sex	-99.08088	62.14592	-1.59	0.113	-221.7682 23.60648
w1Age	-4.689757	2.840937	-1.65	0.101	-10.29828 .9187707
Race	-88.47055	52.20652	-1.69	0.092	-191.5357 14.59464
PovStat	-109.7237	54.02585	-2.03	0.044	-216.3806 -3.0668
TIME_V1SCAN	.0499648	.0388341	1.29	0.200	-.0267008 .1266304
w1BMI	3.069504	3.602405	0.85	0.395	-4.042299 10.18131
ICV_volum2	.0020758	.0002285	9.08	0.000	.0016247 .0025269
_cons	1489.263	365.0367	4.08	0.000	768.614 2209.912

1040 .

1041 . //ANALYSIS C//

1042 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_final

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	179
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	170
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	1.72
Within VCE type: OLS	Prob > F	=	0.0976

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1.249257	.6561202	-1.90	0.059	-2.544558 .0460439
Sex	.4042355	.7780525	0.52	0.604	-1.131782 1.940253
w1Age	.0510002	.0355679	1.43	0.153	-.0192173 .1212176
Race	1.080247	.6536136	1.65	0.100	-.2101051 2.3706
PovStat	.7920128	.6763912	1.17	0.243	-.5433067 2.127332
TIME_V1SCAN	-.0006158	.0004862	-1.27	0.207	-.0015757 .000344
w1BMI	.0267053	.0451013	0.59	0.555	-.0623328 .1157435
ICV_volum2	2.26e-06	2.86e-06	0.79	0.431	-3.39e-06 7.90e-06
_cons	-2.071719	4.570176	-0.45	0.651	-11.09408 6.95064

1043 .

1044 . save, replace

file finaldata_imputed.dta saved

1045 .

1046 . *****MALES*****

1047 .

1048 . **Model 1**

1049 .

1050 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

1051 .
 1052 . //ANALYSIS A//
 1053 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	2.4253e+11	5	4.8506e+10	F(5, 74)	=	4.58
Residual	7.8349e+11	74	1.0588e+10	Prob > F	=	0.0011
				R-squared	=	0.2364
Total	1.0260e+12	79	1.2988e+10	Adj R-squared	=	0.1848
				Root MSE	=	1.0e+05

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	3498.455	25968.19	0.13	0.893	.0147345
Sex	0	(omitted)			.
w1Age	-2308.386	1472.87	-1.57	0.121	-.1768143
Race	-90207.89	24158.27	-3.73	0.000	-.3937679
PovStat	15290.16	27834.47	0.55	0.584	.0584629
TIME_V1SCAN	-41.55387	19.49478	-2.13	0.036	-.223148
_cons	1518424	100458.3	15.11	0.000	.

1054 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	1.1126e+11	5	2.2252e+10	F(5, 74)	=	7.74
Residual	2.1270e+11	74	2.8743e+09	Prob > F	=	0.0000
Total	3.2396e+11	79	4.1007e+09	R-squared	=	0.3434
				Adj R-squared	=	0.2991
				Root MSE	=	53612

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	9900.851	13530.22	0.73	0.467	.0742102
Sex	0	(omitted)			.
w1Age	-2357.471	767.4105	-3.07	0.003	-.3213571
Race	-62190.1	12587.2	-4.94	0.000	-.4831141
PovStat	3176.263	14502.61	0.22	0.827	.0216131
TIME_V1SCAN	-16.62804	10.15738	-1.64	0.106	-.1589115
_cons	907828.6	52341.84	17.34	0.000	.

1055 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	3.2662e+10	5	6.5323e+09	F(5, 74)	=	2.60
Residual	1.8600e+11	74	2.5135e+09	Prob > F	=	0.0320
Total	2.1866e+11	79	2.7679e+09	R-squared	=	0.1494
				Adj R-squared	=	0.0919
				Root MSE	=	50135

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1542.858	12652.71	-0.12	0.903	-.0140758
Sex	0	(omitted)			.
w1Age	-533.6266	717.6393	-0.74	0.459	-.0885392
Race	-25947.95	11770.84	-2.20	0.031	-.2453513
PovStat	2400.722	13562.03	0.18	0.860	.0198838
TIME_V1SCAN	-22.89024	9.498611	-2.41	0.018	-.2662695
_cons	593468.8	48947.16	12.12	0.000	.

1056 .

1057 . //ANALYSIS B//

1058 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_vo1M2 if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	7007060.52	6	1167843.42	F(6, 73)	=	11.23
Residual	7592271.01	73	104003.712	Prob > F	=	0.0000
				R-squared	=	0.4800
				Adj R-squared	=	0.4372
Total	14599331.5	79	184801.665	Root MSE	=	322.5

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	62.36076	81.39246	0.77	0.446	.0696275
Sex	0	(omitted)			.
w1Age	-5.302051	4.617147	-1.15	0.255	-.1076623
Race	9.719571	84.49088	0.12	0.909	.0112474
PovStat	-272.3224	87.3295	-3.12	0.003	-.276034
TIME_V1SCAN	-.0018712	.0624761	-0.03	0.976	-.0026639
ICV_vo1M2	.0021345	.0003309	6.45	0.000	.6299371
_cons	1181.858	637.7298	1.85	0.068	.

1059 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_vo1M2 if sample_final==1 & Sex==2,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	8338595.51	6	1389765.92	F(6, 73)	=	13.12
Residual	7732962.91	73	105930.999	Prob > F	=	0.0000
Total	16071558.4	79	203437.448	R-squared	=	0.5188
				Adj R-squared	=	0.4793
				Root MSE	=	325.47

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	137.7133	82.14313	1.68	0.098	.1465489
Sex	0	(omitted)			.
w1Age	-2.894031	4.659731	-0.62	0.536	-.0560094
Race	1.355574	85.27013	0.02	0.987	.0014951
PovStat	-235.0452	88.13494	-2.67	0.009	-.2270743
TIME_V1SCAN	.0498284	.0630523	0.79	0.432	.0676093
ICV_vo1M2	.0024345	.000334	7.29	0.000	.6847482
_cons	761.9166	643.6115	1.18	0.240	.

1060 .
 1061 . //ANALYSIS C//
 1062 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final==1 & Sex==2,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	80
Model	30.1750162	6	5.02916937	F(6, 73)	=	0.54
Residual	684.166323	73	9.37214141	Prob > F	=	0.7787
				R-squared	=	0.0422
				Adj R-squared	=	-0.0365
Total	714.341339	79	9.04229543	Root MSE	=	3.0614

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-.3903316	.7726435	-0.51	0.615	-.0623041
Sex	0	(omitted)			.
w1Age	-.0189741	.0438297	-0.43	0.666	-.0550802
Race	1.028319	.8020562	1.28	0.204	.1701172
PovStat	.3417814	.8290028	0.41	0.681	.0495269
TIME_V1SCAN	-.0005247	.0005931	-0.88	0.379	-.1067951
ICV_volM2	1.84e-07	3.14e-06	0.06	0.953	.0077741
_cons	5.999273	6.053851	0.99	0.325	.

1063 .
 1064 .
 1065 . **Model 2**
 1066 .
 1067 . use finaldata_imputed,clear
 1068 .
 1069 .
 1070 . //ANALYSIS A//
 1071 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

Multiple-imputation estimates	Imputations	=	5
Linear regression	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	73
DF adjustment: Small sample	DF:	min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(6, 71.1)	= 3.79
Within VCE type:	OLS	Prob > F	= 0.0025

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4431.464	26258.17	0.17	0.866	-47924.82
Sex	0	(omitted)			56787.75
w1Age	-2459.061	1542.551	-1.59	0.115	-5534.762
Race	-90765.5	24354.48	-3.73	0.000	-139326
PovStat	15713.09	28026.72	0.56	0.577	-40169.52
TIME_V1SCAN	-41.42848	19.61455	-2.11	0.038	-80.53802
w1BMI	874.5899	2490.587	0.35	0.727	-2.318938
_cons	1500647	113030.5	13.28	0.000	5840.583
					1275274
					1726019

1072 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	73
DF adjustment:	Small sample	DF:	
		min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(6, 71.1)	= 6.51
Within VCE type:	OLS	Prob > F	= 0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	10939.72	13640.03	0.80	0.425	-16257.2 38136.65
Sex	0	(omitted)			
w1Age	-2525.242	801.2915	-3.15	0.002	-4122.941 -927.5428
Race	-62810.98	12651.15	-4.96	0.000	-88036.16 -37585.79
PovStat	3647.184	14558.72	0.25	0.803	-25381.52 32675.89
TIME_V1SCAN	-16.48842	10.18894	-1.62	0.110	-36.80421 3.827365
w1BMI	973.8244	1293.757	0.75	0.454	-1605.804 3553.452
_cons	888033.5	58714.67	15.12	0.000	770962 1005105

1073 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==2

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	80
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	73
DF adjustment:	Small sample	DF:	
		min	= 71.08
		avg	= 71.08
		max	= 71.08
Model F test:	Equal FMI	F(6, 71.1)	= 2.14
Within VCE type:	OLS	Prob > F	= 0.0593

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-1684.282	12803.75	-0.13	0.896	-27213.74 23845.18
Sex	0	(omitted)			
w1Age	-510.7876	752.1637	-0.68	0.499	-2010.531 988.9554
Race	-25863.42	11875.49	-2.18	0.033	-49542.03 -2184.817
PovStat	2336.614	13666.11	0.17	0.865	-24912.32 29585.55
TIME_V1SCAN	-22.90925	9.564253	-2.40	0.019	-41.97946 -3.839034
w1BMI	-132.5689	1214.436	-0.11	0.913	-2554.038 2288.9
_cons	596163.6	55114.83	10.82	0.000	486269.8 706057.3

1074 .

1075 . //ANALYSIS B//
 1076 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_fin

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 80
 Average RVI = 0.0000
 Largest FMI = 0.0000
 Complete DF = 72
 DF adjustment: Small sample
 DF: min = 70.08
 avg = 70.08
 max = 70.08
 Model F test: Equal FMI
 Within VCE type: OLS
 F(7, 70.1) = 9.73
 Prob > F = 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	70.00743	81.89088	0.85	0.396	-93.31549 233.3304
Sex	0 (omitted)				
w1Age	-6.543935	4.812656	-1.36	0.178	-16.14228 3.054412
Race	3.912724	84.80681	0.05	0.963	-165.2257 173.0512
PovStat	-268.7148	87.50261	-3.07	0.003	-443.2297 -94.19983
TIME_V1SCAN	-.0012652	.0625412	-0.02	0.984	-.1259973 .1234668
w1BMI	7.191143	7.772028	0.93	0.358	-8.309367 22.69165
ICV_vo1M2	.0021238	.0003314	6.41	0.000	.0014628 .0027848
_cons	1053.758	653.2	1.61	0.111	-248.982 2356.499

1077 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_fi

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 80
 Average RVI = 0.0000
 Largest FMI = 0.0000
 Complete DF = 72
 DF adjustment: Small sample
 DF: min = 70.08
 avg = 70.08
 max = 70.08
 Model F test: Equal FMI
 Within VCE type: OLS
 F(7, 70.1) = 11.92
 Prob > F = 0.0000

Right_Hippoca~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	151.4361	81.57693	1.86	0.068	-11.26072 314.1328
Sex	0 (omitted)				
w1Age	-5.122732	4.794205	-1.07	0.289	-14.68428 4.438817
Race	-9.065466	84.48168	-0.11	0.915	-177.5555 159.4245
PovStat	-228.5708	87.16715	-2.62	0.011	-402.4167 -54.72492
TIME_V1SCAN	.0509158	.0623014	0.82	0.417	-.073338 .1751697
w1BMI	12.90531	7.742232	1.67	0.100	-2.535771 28.3464
ICV_vo1M2	.0024151	.0003302	7.31	0.000	.0017566 .0030736
_cons	532.0267	650.6958	0.82	0.416	-765.7191 1829.773

```

1078 .
1079 . //ANALYSIS C//
1080 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_vo1M2 if sample_final==1, beta
          note: Sex omitted because of collinearity.

Multiple-imputation estimates
  Imputations      =       5
  Linear regression
  Number of obs     =      80
  Average RVI      =    0.0000
  Largest FMI      =    0.0000
  Complete DF       =      72
  DF adjustment:   Small sample
  DF:      min      =    70.08
           avg      =    70.08
           max      =    70.08
  Model F test:    Equal FMI      =    0.53
  Within VCE type: OLS            =  0.8054

```

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-0.4482625	.7790511	-0.58	0.567	-2.002
Sex	0 (omitted)				
w1Age	-0.0095657	.0457842	-0.21	0.835	-.1008774
Race	1.072311	.8067912	1.33	0.188	-.5367508
PovStat	.31445	.8324371	0.38	0.707	-1.34576
TIME_V1SCAN	-.0005293	.000595	-0.89	0.377	-.0017159
w1BMI	-.0544798	.0739375	-0.74	0.464	-.2019406
ICV_vo1M2	2.66e-07	3.15e-06	0.08	0.933	-6.02e-06
_cons	6.969754	6.214077	1.12	0.266	-5.423583
					19.36309

```

1081 .
1082 . save, replace
      file finaldata_imputed.dta saved

1083 .
1084 .
1085 . *****FEMALES*****
1086 .
1087 . **Model 1**
1088 .
1089 . use HANDLS_paper51_NFLBRAINSCANFINALIZED,clear

1090 .
1091 . //ANALYSIS A//
1092 . reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
          note: Sex omitted because of collinearity.


```

Source	SS	df	MS	Number of obs	=	99
Model	1.1760e+11	5	2.3519e+10	F(5, 93)	=	4.12
Residual	5.3048e+11	93	5.7041e+09	Prob > F	=	0.0020
Total	6.4808e+11	98	6.6131e+09	R-squared	=	0.1815
				Adj R-squared	=	0.1374
				Root MSE	=	75526

TOTALBRAIN	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	7585.132	17967.71	0.42	0.674	.0453553
Sex	0 (omitted)				.
w1Age	-2095.604	940.7563	-2.23	0.028	-.2430185
Race	-57881.1	16287.04	-3.55	0.001	-.3510437
PovStat	-24252.43	18360.53	-1.32	0.190	-.1441934
TIME_V1SCAN	-3.17302	13.26619	-0.24	0.811	-.0254888
_cons	1299674	61463.64	21.15	0.000	.

1093 . reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	5.8702e+10	5	1.1740e+10	F(5, 93)	=	6.65
Residual	1.6426e+11	93	1.7663e+09	Prob > F	=	0.0000
Total	2.2297e+11	98	2.2752e+09	R-squared	=	0.2633
				Adj R-squared	=	0.2237
				Root MSE	=	42027

GM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	7379.722	9998.364	0.74	0.462	.0752315
Sex	0	(omitted)			.
w1Age	-1600.542	523.4959	-3.06	0.003	-.3164402
Race	-41785.84	9063.131	-4.61	0.000	-.4320639
PovStat	-9631.955	10216.96	-0.94	0.348	-.0976335
TIME_V1SCAN	-.9977816	7.382142	-0.14	0.893	-.0136649
_cons	758536.8	34202.23	22.18	0.000	.

1094 . reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	1.2666e+10	5	2.5332e+09	F(5, 93)	=	1.87
Residual	1.2587e+11	93	1.3534e+09	Prob > F	=	0.1067
Total	1.3854e+11	98	1.4136e+09	R-squared	=	0.0914
				Adj R-squared	=	0.0426
				Root MSE	=	36789

WM	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1729.796	8752.232	-0.20	0.844	-.0223713
Sex	0	(omitted)			.
w1Age	-856.5065	458.2508	-1.87	0.065	-.2148289
Race	-12952.05	7933.561	-1.63	0.106	-.1699006
PovStat	-14355.72	8943.58	-1.61	0.112	-.1846065
TIME_V1SCAN	-1.875992	6.46208	-0.29	0.772	-.0325941
_cons	514854.1	29939.49	17.20	0.000	.

1095 .

1096 .

1097 . //ANALYSIS B//

1098 . reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volM2 if sample_final==1 & Sex==1,beta
 note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	2751798.23	6	458633.038	F(6, 92)	=	7.26
Residual	5808753.11	92	63138.6208	Prob > F	=	0.0000
Total	8560551.34	98	87352.5647	R-squared	=	0.3215
				Adj R-squared	=	0.2772
				Root MSE	=	251.27

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-92.33639	59.78123	-1.54	0.126	-.1519152
Sex	0	(omitted)			.
w1Age	-9.205804	3.137953	-2.93	0.004	-.2937345
Race	-144.2475	58.40604	-2.47	0.015	-.24076109
PovStat	-53.57567	61.52401	-0.87	0.386	-.0876437
TIME_V1SCAN	.0217571	.0441368	0.49	0.623	.0480885
ICV_volum2	.0010953	.0002898	3.78	0.000	.3562612
_cons	2738.557	463.7721	5.90	0.000	.

1099 . reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	4332695.98	6	722115.996	F(6, 92)	=	9.85
Residual	6746576.95	92	73332.3581	Prob > F	=	0.0000
Total	11079272.9	98	113053.805	R-squared	=	0.3911
				Adj R-squared	=	0.3513
				Root MSE	=	270.8

Right_Hippocas~s	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-86.723	64.42658	-1.35	0.182	-.1254174
Sex	0	(omitted)			.
w1Age	-6.193298	3.381791	-1.83	0.070	-.1737043
Race	-138.5911	62.94453	-2.20	0.030	-.203291
PovStat	-20.5611	66.30479	-0.31	0.757	-.0295661
TIME_V1SCAN	.0425557	.0475665	0.89	0.373	.0826784
ICV_volum2	.0017407	.0003124	5.57	0.000	.4976537
_cons	1978.237	499.81	3.96	0.000	.

1100 .
1101 . //ANALYSIS C//
1102 . reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN ICV_volum2 if sample_final==1 & Sex==1,beta
note: Sex omitted because of collinearity.

Source	SS	df	MS	Number of obs	=	99
Model	248.65835	6	41.4430583	F(6, 92)	=	2.33
Residual	1635.29352	92	17.7749296	Prob > F	=	0.0385
Total	1883.95187	98	19.2239987	R-squared	=	0.1320
				Adj R-squared	=	0.0754
				Root MSE	=	4.216

LnLesion_Volume	Coefficient	Std. err.	t	P> t	Beta
NFLw1w3tracklow	-1.820143	1.003047	-1.81	0.073	-.2018597
Sex	0	(omitted)			.
w1Age	.1053408	.0526505	2.00	0.048	.2265717
Race	1.231223	.979973	1.26	0.212	.1384969
PovStat	1.446987	1.032288	1.40	0.164	.1595636
TIME_V1SCAN	-.0008042	.0007406	-1.09	0.280	-.119816
ICV_volum2	6.23e-06	4.86e-06	1.28	0.203	.1365715
_cons	-8.95774	7.781459	-1.15	0.253	.

```

1103 .
1104 .
1105 . **Model 2**
1106 .
1107 . use finaldata_imputed,clear

1108 .
1109 .
1110 . //ANALYSIS A/
1111 . mi estimate: reg TOTALBRAIN NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	3.55
Within VCE type: OLS	Prob > F	=	0.0033

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	3803.524	18510.76	0.21	0.838	-32970.98 40578.03
Sex	0	(omitted)			
w1Age	-2100.344	942.0165	-2.23	0.028	-3971.807 -228.882
Race	-57524.55	16313.75	-3.53	0.001	-89934.35 -25114.76
PovStat	-25390.06	18431.41	-1.38	0.172	-62006.93 11226.81
TIME_V1SCAN	-1.543726	13.41553	-0.12	0.909	-28.19575 25.1083
w1BMI	952.9587	1097.135	0.87	0.387	-1226.67 3132.587
_cons	1270339	70202.53	18.10	0.000	1130870 1409807

```

1112 . mi estimate: reg GM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	99	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	92	
DF adjustment: Small sample	DF:	min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test: Equal FMI	F(6, 90.1)	=	5.79
Within VCE type: OLS	Prob > F	=	0.0000

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4545.199	10266.1	0.44	0.659	-15850 24940.4
Sex	0	(omitted)			
w1Age	-1604.096	522.4439	-3.07	0.003	-2642.012 -566.1796
Race	-41518.59	9047.63	-4.59	0.000	-59493.12 -23544.07
PovStat	-10484.67	10222.09	-1.03	0.308	-30792.44 9823.107
TIME_V1SCAN	.2234631	7.440272	0.03	0.976	-14.55779 15.00472
w1BMI	714.2948	608.4726	1.17	0.244	-494.5307 1923.12
_cons	736548.7	38934.43	18.92	0.000	659199.4 813898

```
1113 . mi estimate: reg WM NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1 & Sex==1
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	92
DF adjustment:	Small sample	DF:	
		min	= 90.06
		avg	= 90.06
		max	= 90.06
Model F test:	Equal FMI	F(6, 90.1)	= 1.63
Within VCE type:	OLS	Prob > F	= 0.1475

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-3206.145	9029.971	-0.36	0.723	-21145.59 14733.3
Sex	0	(omitted)			
w1Age	-858.3571	459.5371	-1.87	0.065	-1771.299 54.58483
Race	-12812.85	7958.217	-1.61	0.111	-28623.09 2997.381
PovStat	-14799.85	8991.263	-1.65	0.103	-32662.4 3062.692
TIME_V1SCAN	-1.239911	6.544398	-0.19	0.850	-14.24138 11.76155
w1BMI	372.0376	535.2072	0.70	0.489	-691.2348 1435.31
_cons	503401.7	34246.39	14.70	0.000	435366 571437.5

```
1114 .
```

```
1115 . //ANALYSIS B//
```

```
1116 . mi estimate: reg Left_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fin
```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	91
DF adjustment:	Small sample	DF:	
		min	= 89.06
		avg	= 89.06
		max	= 89.06
Model F test:	Equal FMI	F(7, 89.1)	= 6.32
Within VCE type:	OLS	Prob > F	= 0.0000

Left_Hippocam~s	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-104.8733	61.59207	-1.70	0.092	-227.2542 17.50764
Sex	0	(omitted)			
w1Age	-9.238304	3.142476	-2.94	0.004	-15.48227 -2.994333
Race	-144.6847	58.48822	-2.47	0.015	-260.8984 -28.47102
PovStat	-57.90569	61.81125	-0.94	0.351	-180.7221 64.91074
TIME_V1SCAN	.0271689	.0446377	0.61	0.544	-.0615244 .1158622
w1BMI	3.169729	3.663805	0.87	0.389	-4.110101 10.44956
ICV_volum2	.0010738	.0002913	3.69	0.000	.0004949 .0016526
_cons	2671.984	470.7394	5.68	0.000	1736.644 3607.323

1117 . mi estimate: reg Right_Hippocampus NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	91
DF adjustment:	Small sample	DF:	
		min	= 89.06
		avg	= 89.06
		max	= 89.06
Model F test:	Equal FMI	F(7, 89.1)	= 8.39
Within VCE type:	OLS	Prob > F	= 0.0000

Right_Hippocas~	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-93.12808	66.58944	-1.40	0.165	-225.4386 39.18241
Sex	0	(omitted)			
w1Age	-6.209902	3.397445	-1.83	0.071	-12.96049 .5406825
Race	-138.8145	63.23375	-2.20	0.031	-264.4573 -13.17158
PovStat	-22.7733	66.8264	-0.34	0.734	-155.5546 110.008
TIME_V1SCAN	.0453205	.0482595	0.94	0.350	-.050569 .1412101
w1BMI	1.61941	3.961073	0.41	0.684	-6.25108 9.489901
ICV_volum2	.0017296	.0003149	5.49	0.000	.0011038 .0023554
_cons	1944.225	508.9335	3.82	0.000	932.9953 2955.455

1118 .

1119 . //ANALYSIS C//

1120 . mi estimate: reg LnLesion_Volume NFLw1w3tracklow Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sample_fi

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
	Number of obs	=	99
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	Complete DF	=	91
DF adjustment:	Small sample	DF:	
		min	= 89.06
		avg	= 89.06
		max	= 89.06
Model F test:	Equal FMI	F(7, 89.1)	= 2.38
Within VCE type:	OLS	Prob > F	= 0.0282

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	-2.196262	1.02405	-2.14	0.035	-4.231007 -.161516
Sex	0	(omitted)			
w1Age	.1043658	.0522478	2.00	0.049	.0005515 .2081801
Race	1.218105	.9724444	1.25	0.214	-.714102 3.150313
PovStat	1.317083	1.027694	1.28	0.203	-.7249035 3.359069
TIME_V1SCAN	-.0006418	.0007422	-0.86	0.389	-.0021165 .0008328
w1BMI	.0950949	.0609156	1.56	0.122	-.0259419 .2161318
ICV_volum2	5.58e-06	4.84e-06	1.15	0.252	-4.04e-06 .0000152
_cons	-10.955	7.826667	-1.40	0.165	-26.50627 4.596269

```

1121 .
1122 . save, replace
      file finaldata_imputed.dta saved

1123 .
1124 .
1125 .
1126 . //INTERACTION BY Sex//
1127 .
1128 .
1129 . //ANALYSIS A//
1130 . mi estimate: reg TOTALBRAIN c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	17.72
Within VCE type: OLS	Prob > F	=	0.0000

TOTALBRAIN	Coefficient	Std. err.	t	P> t	[95% conf. interval]
NFLw1w3tracklow	4950.812	20691.35	0.24	0.811	-35897.68 45799.3
Sex					
Men	137865.2	16845.75	8.18	0.000	104608.6 171121.8
Sex#c.NFLw1w3tracklow					
Men	1600.679	28955.93	0.06	0.956	-55563.6 58764.96
Sex	0 (omitted)				
w1Age	-2140.605	841.3027	-2.54	0.012	-3801.49 -479.7204
Race	-71473.37	14138.84	-5.06	0.000	-99386.03 -43560.71
PovStat	-3936.706	15974.73	-0.25	0.806	-35473.74 27600.33
TIME_V1SCAN	-20.9478	11.43108	-1.83	0.069	-43.51483 1.619231
w1BMI	637.9058	1095.704	0.58	0.561	-1525.214 2801.025
_cons	1310357	63319.75	20.69	0.000	1185352 1435362

```

1131 . mi estimate: reg GM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates  

  Linear regression


|                             | Imputations  | =      | 5        |
|-----------------------------|--------------|--------|----------|
| Number of obs               | =            | 179    |          |
| Average RVI                 | =            | 0.0000 |          |
| Largest FMI                 | =            | 0.0000 |          |
| Complete DF                 | =            | 170    |          |
| DF adjustment: Small sample | DF:          | min    | = 168.03 |
|                             |              | avg    | = 168.03 |
|                             |              | max    | = 168.03 |
| Model F test: Equal FMI     | F( 8, 168.0) | =      | 20.47    |
| Within VCE type: OLS        | Prob > F     | =      | 0.0000   |


```

GM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	3190.015	11044.36	0.29	0.773	-18613.56	24993.59
Sex						
Men	68339.9	8991.704	7.60	0.000	50588.64	86091.16
Sex#c.NFLw1w3tracklow						
Men	10538.65	15455.72	0.68	0.496	-19973.75	41051.05
Sex	0	(omitted)				
w1Age	-1924.035	449.0596	-4.28	0.000	-2810.561	-1037.51
Race	-50391.9	7546.848	-6.68	0.000	-65290.76	-35493.05
PovStat	-2993.431	8526.784	-0.35	0.726	-19826.86	13839.99
TIME_V1SCAN	-7.686501	6.101531	-1.26	0.210	-19.73204	4.359034
w1BMI	598.1796	584.8506	1.02	0.308	-556.422	1752.781
_cons	773750.6	33797.99	22.89	0.000	707027.2	840474

1132 . mi estimate: reg WM c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI if sample_final==1

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	170	
DF adjustment: Small sample	DF:	min	= 168.03
		avg	= 168.03
		max	= 168.03
Model F test: Equal FMI	F(8, 168.0)	=	11.58
Within VCE type: OLS	Prob > F	=	0.0000

WM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-571.8422	10091.87	-0.06	0.955	-20495.04	19351.36
Sex						
Men	56882.83	8216.246	6.92	0.000	40662.46	73103.19
Sex#c.NFLw1w3tracklow						
Men	-1166.555	14122.79	-0.08	0.934	-29047.52	26714.41
Sex	0	(omitted)				
w1Age	-682.7254	410.332	-1.66	0.098	-1492.796	127.3446
Race	-18552	6895.996	-2.69	0.008	-32165.96	-4938.052
PovStat	-5164.521	7791.421	-0.66	0.508	-20546.21	10217.16
TIME_V1SCAN	-11.59937	5.575326	-2.08	0.039	-22.60608	-.5926604
w1BMI	134.4326	534.4122	0.25	0.802	-920.5944	1189.46
_cons	516839.8	30883.2	16.74	0.000	455870.7	577808.9

```

1133 .
1134 .
1135 .
1136 . //ANALYSIS B//  

1137 . mi estimate: reg Left_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sam

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 167.03
		avg	= 167.03
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	15.87
Within VCE type: OLS	Prob > F	=	0.0000

Left_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-87.68975	67.5549	-1.30	0.196	-221.0612	45.68173
Sex						
Men	-72.14159	68.21256	-1.06	0.292	-206.8115	62.52829
Sex#c.NFLw1w3tracklow						
Men	143.6361	94.5398	1.52	0.131	-43.01084	330.283
Sex	0 (omitted)					
w1Age	-7.7306	2.749021	-2.81	0.006	-13.1579	-2.303296
Race	-82.26267	50.40736	-1.63	0.105	-181.7803	17.25496
PovStat	-132.5551	52.17004	-2.54	0.012	-235.5528	-29.5575
TIME_V1SCAN	.0182831	.0375317	0.49	0.627	-.0558145	.0923806
w1BMI	4.483321	3.581213	1.25	0.212	-2.586953	11.5536
ICV_volum2	.0016482	.0002205	7.47	0.000	.0012128	.0020836
_cons	1862.857	377.5746	4.93	0.000	1117.424	2608.291

```

1138 . mi estimate: reg Right_Hippocampus c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volum2 if sa

```

Multiple-imputation estimates
 Linear regression

	Imputations	=	5
Number of obs	=	179	
Average RVI	=	0.0000	
Largest FMI	=	0.0000	
Complete DF	=	169	
DF adjustment: Small sample	DF:	min	= 167.03
		avg	= 167.03
		max	= 167.03
Model F test: Equal FMI	F(9, 167.0)	=	19.23
Within VCE type: OLS	Prob > F	=	0.0000

Right_Hippocampus	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-89.42089	69.13106	-1.29	0.198	-225.9041	47.06236
Sex						
Men	-175.7221	69.80407	-2.52	0.013	-313.534	-37.91013
Sex#c.NFLw1w3tracklow						
Men	222.9535	96.74557	2.30	0.022	31.95185	413.9552
Sex	0 (omitted)					
w1Age	-5.165113	2.81316	-1.84	0.068	-10.71904	.3888186
Race	-84.65915	51.58344	-1.64	0.103	-186.4987	17.18039

PovStat	-105.3572	53.38725	-1.97	0.050	-210.7579	.0435679
TIME_V1SCAN	.0547611	.0384073	1.43	0.156	-.0210653	.1305874
w1BMI	5.09717	3.664769	1.39	0.166	-2.138066	12.3324
ICV_volM2	.002081	.0002257	9.22	0.000	.0016354	.0025266
_cons	1363.534	386.384	3.53	0.001	600.7087	2126.36

1139 .
 1140 . //ANALYSIS C//
 1141 . mi estimate: reg LnLesion_Volume c.NFLw1w3tracklow##Sex Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 if samp

Multiple-imputation estimates
 Linear regression
 Imputations = 5
 Number of obs = 179
 Average RVI = 0.0000
 Largest FMI = 0.0000
 Complete DF = 169
 DF adjustment: Small sample
 DF: min = 167.03
 avg = 167.03
 max = 167.03
 Model F test: Equal FMI
 Within VCE type: OLS
 F(9, 167.0) = 2.07
 Prob > F = 0.0351

LnLesion_Volume	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
NFLw1w3tracklow	-2.47982	.8673255	-2.86	0.005	-4.192152	-.7674867
Sex Men	-.4886896	.8757691	-0.56	0.578	-2.217692	1.240313
Sex#c.NFLw1w3tracklow Men	2.597569	1.21378	2.14	0.034	.2012426	4.993896
Sex w1Age Race PovStat TIME_V1SCAN w1BMI ICV_volM2 _cons	0 (omitted) .0454619 1.124653 .8428859 -.00056 .0503291 2.32e-06 -1.977951	.0352942 .6471712 .6698019 .0004819 1.26 0.210 0.247 0.275 0.82 0.414 -0.41 4.847613	1.29 1.74 1.26 0.210 -1.16 0.247 0.275 0.275 0.82 0.414 -0.41 0.684	0.199 0.084 0.210 0.247 0.275 0.275 0.275 0.275 0.82 0.414 -0.41 0.684	-.0242183 -.1530365 -.4794826 -.0015113 .0003914 .1411031 -3.27e-06 -11.54844 7.91e-06 7.592536	.1151421 2.402342 2.165254 0.003914 .1411031 -3.27e-06 -11.54844 7.91e-06 7.592536

1142 .
 1143 . save, replace
 file finaldata_imputed.dta saved
 1144 .
 1145 .
 1146 .
 1147 .
 1148 . capture log close