



```

name: <unnamed>
log: E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May_Baydoun_folder\HANDLS_PAPER65_HCY_COGN\OUTPUT\TABLES2...
log type: smcl
opened on: 28 Nov 2023, 14:47:12

1 .
2 . use finaldata_imputed_FINAL,clear

3 .
4 .
5 . *****INTERACTION WITH FOLATE AND B12: BASELINE HCY*****
6 .
7 .
8 .
9 . *****TABLE S1: HOMOCYSTEINE AT BASELINE VS. COGNITIVE CHANGE OVER TIME: INTERACTION B...
10 .
11 .
12 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
13 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t...
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression
Imputations      =      5
Number of obs    =  2,621

Group variable: HNDID
Number of groups =  1,398
Obs per group:
min =          1
avg =         1.9
max =          2
Average RVI     =  0.0103
Largest FMI     =  0.1433
DF: min = 217.93
      avg = 5.91e+09
      max = 8.23e+10
DF adjustment: Large sample
Model F test: Equal FMI
F( 17,384677.3) = 12.19
Prob > F        = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0072017	.0205396	-0.35	0.726	.0474586	.0330553
w1Agecent48	-.0313403	.005633	-5.56	0.000	.0423807	-.0202998
c.timew1w3#c.w1Agecent48	-.0023947	.0011699	-2.05	0.041	-.0046876	-.0001017
timew1w3	0 (omitted)					
Sex						
Men	-.3542141	.1046286	-3.39	0.001	-.5592823	-.1491458
Sex#c.timew1w3						
Men	.0190771	.0217614	0.88	0.381	-.0235744	.0617286
timew1w3	0 (omitted)					
Race						
AfrAm	-.7596152	.1032762	-7.36	0.000	-.9620328	-.5571976
Race#c.timew1w3						
AfrAm	.0001131	.0216543	0.01	0.996	-.0423285	.0425548

	timew1w3	0 (omitted)					
PovStat Below		-.5140367	.107001	-4.80	0.000	-.7237547	-.3043186
PovStat#c.timew1w3 Below		-.0251258	.021794	-1.15	0.249	-.0678412	.0175896
timew1w3 invmillsmms		0 (omitted)	.0089852	.0033119	2.71	0.007	.002494
c.timew1w3#c.invmillsmms		-.0018757	.0006122	-3.06	0.002	-.0030755	-.0006759
timew1w3 zw1w3HCYTRAJ		0 (omitted)	-.093865	.0544161	-1.72	0.085	-.2005204
c.timew1w3#c.zw1w3HCYTRAJ		.0092433	.011802	0.78	0.434	-.0138881	.0323748
w1Folatecenter14p3		.0162194	.0078502	2.07	0.039	.0008246	.0316142
c.timew1w3#c.w1Folatecenter14p3		.00006	.0017129	0.04	0.972	-.0032973	.0034173
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0210635	.0071539	-2.94	0.004	-.0351633	-.0069638
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.00192	.0016554	1.16	0.246	-.001325	.005165
_cons		28.58055	.0957737	298.42	0.000	28.39283	28.76826

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	6.08e-07	.000231	0 .
sd(_cons)	1.426252	.045306	1.340162 1.517873
sd(Residual)	1.221947	.0272587	1.169672 1.276559

```

14 .
15 .
16 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,621
Number of groups = 1,398
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0049
    Largest FMI = 0.0583
    DF: min = 1,241.15
        avg = 1.73e+15
        max = 3.62e+16
    F( 17, 1.7e+06) = 14.34
    Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.177471	.1683427	-1.05	0.292	-.5074166 .1524745
	w1Agecent48	-.2516506	.0424788	-5.92	0.000	-.3349075 -.1683937
c.timew1w3#c.w1Agecent48		-.0173748	.0095906	-1.81	0.070	-.0361721 .0014226
	timew1w3	0	(omitted)			
	Sex					
	Men	-2.043695	.7889404	-2.59	0.010	-3.58999 -.4974004
	Sex#c.timew1w3					
	Men	.1374876	.1783743	0.77	0.441	-.2121196 .4870948
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-6.751313	.7788801	-8.67	0.000	-8.27789 -5.224736
	Race#c.timew1w3					
	AfrAm	.0682393	.1774901	0.38	0.701	-.2796349 .4161136
	timew1w3	0	(omitted)			
	PovStat					
	Below	-3.975261	.8072444	-4.92	0.000	-5.557431 -2.393091
	PovStat#c.timew1w3					
	Below	-.2675894	.1786801	-1.50	0.134	-.6177959 .0826171
	timew1w3	0	(omitted)			
	invmillsmms	.0505756	.024983	2.02	0.043	.0016099 .0995412
	c.timew1w3#c.invmillsmms	-.009581	.0050373	-1.90	0.057	-.0194539 .0002918
	timew1w3	0	(omitted)			
	zw1w3HCYTRAJ	-.4679663	.409332	-1.14	0.253	-1.270244 .3343115
c.timew1w3#c.zw1w3HCYTRAJ		.0414141	.09644	0.43	0.668	-.147605 .2304331
w1Folatecenter14p3		.1530143	.0588716	2.60	0.009	.0375995 .2684291
c.timew1w3#c.w1Folatecenter14p3		-.005946	.0139557	-0.43	0.670	-.0332989 .0214068
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.1424728	.051663	-2.76	0.006	-.2438293 -.0411163
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0131592	.0134135	0.98	0.327	-.0131321 .0394504
_cons		83.30903	.7211813	115.52	0.000	81.89554 84.72252

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000132	.0022255	5.7e-149	3.0e+138
sd(_cons)	9.977434	.3334373	9.344852	10.65284
sd(Residual)	10.05747	.2114735	9.651413	10.48061

```

17 .
18 .
19 .
20 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,435
Number of groups = 1,391
Obs per group:
    min = 1
    avg = 1.8
    max = 2
Average RVI = 0.0045
Largest FMI = 0.0432
DF: min = 2,231.63
      avg = 6.08e+09
      max = 1.18e+11
F( 17, 2.0e+06) = 79.03
Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.160873	.071012	-16.35	0.000	-1.300054 -1.021692
w1Agecent48		-.1515926	.0198279	-7.65	0.000	-.1904546 -.1127307
c.timew1w3#c.w1Agecent48		-.0098201	.0039533	-2.48	0.013	-.0175685 -.0020717
timew1w3		0	(omitted)			
Sex						
Men		-2.409273	.3667308	-6.57	0.000	-3.128052 -1.690494
Sex#c.timew1w3						
Men		-.144499	.0734518	-1.97	0.049	-.288462 -.0005361
timew1w3		0	(omitted)			
Race						
AfrAm		-2.854794	.3632785	-7.86	0.000	-3.566807 -2.142781
Race#c.timew1w3						
AfrAm		.1013196	.073262	1.38	0.167	-.0422713 .2449105
timew1w3		0	(omitted)			
PovStat						
Below		-1.684715	.3708958	-4.54	0.000	-2.411658 -.9577731
PovStat#c.timew1w3						
Below		.0077041	.0723549	0.11	0.915	-.1341089 .1495171
timew1w3		0	(omitted)			
invmillsmms		.0197787	.0111269	1.78	0.075	-.0020295 .041587
c.timew1w3#c.invmillsmms		-.0005459	.0019913	-0.27	0.784	-.0044487 .0033569
timew1w3		0	(omitted)			
zw1w3HCYTRAJ		.2757102	.1908229	1.44	0.149	-.0982959 .6497162

c.timew1w3#c.zw1w3HCYTRAJ	-.052001	.0374164	-1.39	0.165	-.1253359	.0213338
w1Folatecenter14p3	-.0053124	.0270404	-0.20	0.844	-.0583395	.0477146
c.timew1w3#c.w1Folatecenter14p3	.0091601	.0052517	1.74	0.081	-.0011332	.0194534
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0478173	.0229728	-2.08	0.037	-.0928538	-.0027808
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0037147	.0045196	-0.82	0.411	-.0125729	.0051436
_cons	28.10564	.3404412	82.56	0.000	27.43839	28.7729

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.2673802	.1405147	.0954558	.7489556
sd(_cons)	4.914507	.1347493	4.657374	5.185836
sd(Residual)	3.755782	.1347341	3.500778	4.029361

```

21 .
22 .
23 .
24 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4cobs==1 || HNDID:

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI
```

	Imputations = 5
	Number of obs = 2,313
	Number of groups = 1,365
	Obs per group:
min	= 1
avg	= 1.7
max	= 2
Average RVI	= 0.0064
Largest FMI	= 0.0760
DF:	min = 740.45
	avg = 1.07e+09
	max = 1.48e+10
F(17, 1.1e+06)	= 48.31
Prob > F	= 0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.3690326	.0348475	-10.59	0.000	-.4373325	-.3007327
w1Agecent48	-.0824758	.0093364	-8.83	0.000	-.1007749	-.0641767
c.timew1w3#c.w1Agecent48	-.0037098	.0019443	-1.91	0.056	-.0075206	.000101
timew1w3	0 (omitted)					
Sex						
Men	-1.099906	.172232	-6.39	0.000	-1.437475	-.7623378
Sex#c.timew1w3						
Men	-.0431697	.0358238	-1.21	0.228	-.1133831	.0270438
timew1w3	0 (omitted)					

	Race AfrAm	-1.571212	.170319	-9.23	0.000	-1.905031	-1.237393
	Race#c.timew1w3 AfrAm	.0268531	.0357831	0.75	0.453	-.0432805	.0969868
	timew1w3 PovStat Below		0 (omitted)				
	PovStat#c.timew1w3 Below	-.5630962	.1737042	-3.24	0.001	-.9035503	-.2226421
	timew1w3 invmillsmms	-.0275023	.0352384	-0.78	0.435	-.0965683	.0415638
	c.timew1w3#c.invmillsmms	.0091985	.005161	1.78	0.075	-.000917	.0193139
	timew1w3 zw1w3HCYTRAJ	-.0003987	.0009402	-0.42	0.672	-.0022413	.001444
	c.timew1w3#c.zw1w3HCYTRAJ	.2405949	.0912011	2.64	0.008	.0618437	.4193462
	w1Folatecenter14p3	-.03361	.0183761	-1.83	0.067	-.0696265	.0024066
	c.timew1w3#c.w1Folatecenter14p3	.0100185	.0125376	0.80	0.424	-.0145569	.0345939
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0011019	.0025329	0.44	0.664	-.0038626	.0060664
	c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0200387	.0116443	-1.72	0.086	-.0428985	.0028212
	_cons	.0001323	.0022353	0.06	0.953	-.004249	.0045136
		8.973899	.1599315	56.11	0.000	8.660439	9.28736

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity sd(_cons)	2.192395	.0645577	2.069446	2.322648
sd(Residual)	1.825532	.0421455	1.74477	1.910033

```

25 .
26 .
27 .
28 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4dobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 2,720

Group variable: HNDID Number of groups = 1,412
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0155
 Largest FMI = 0.1570
 DF adjustment: Large sample DF: min = 183.06
 avg = 1.89e+09
 max = 3.82e+10
 Model F test: Equal FMI F(17,174782.4) = 34.73
 Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2719632	.0477116	5.70	0.000	.1784501	.3654763
w1Agecent48	.1378056	.0137108	10.05	0.000	.1109325	.1646788
c.timew1w3#c.w1Agecent48	.0086443	.0027268	3.17	0.002	.0032998	.0139888
timew1w3	0 (omitted)					
Sex						
Men	-.9871024	.2543437	-3.88	0.000	-1.485607	-.4885979
Sex#c.timew1w3						
Men	.0794726	.0507305	1.57	0.117	-.0199573	.1789024
timew1w3	0 (omitted)					
Race						
AfrAm	1.0371	.2509876	4.13	0.000	.545173	1.529027
Race#c.timew1w3						
AfrAm	.1744949	.0504057	3.46	0.001	.0757015	.2732883
timew1w3	0 (omitted)					
PovStat						
Below	1.189386	.2593615	4.59	0.000	.6810467	1.697725
PovStat#c.timew1w3						
Below	.0525215	.0506991	1.04	0.300	-.0468469	.1518899
timew1w3	0 (omitted)					
invmillsmms	-.0172956	.0081049	-2.13	0.033	-.0331809	-.0014103
c.timew1w3#c.invmillsmms	-.0002013	.0014801	-0.14	0.892	-.0031023	.0026997
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	.0299021	.1316966	0.23	0.820	-.22822	.2880242
c.timew1w3#c.zw1w3HCYTRAJ	.0681626	.0253782	2.69	0.007	.0184221	.117903
w1Folatecenter14p3	-.0330381	.0201565	-1.64	0.103	-.072807	.0067308
c.timew1w3#c.w1Folatecenter14p3	.000622	.0037066	0.17	0.867	-.0066433	.0078872
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0165785	.0164805	1.01	0.315	-.0157481	.048905
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0040097	.0031198	1.29	0.199	-.0021053	.0101248

	<u>_cons</u>	5.769901	.2323921	24.83	0.000	5.314419	6.225383
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1696117	.112415	.0462698	.6217477
sd(_cons)	3.554842	.0957806	3.371986	3.747614
sd(Residual)	2.873916	.0945133	2.694517	3.065259

29 .
30 .
31 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,460
Group variable: HNDID	Number of groups = 1,392
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
	Average RVI = 0.0060
	Largest FMI = 0.0829
DF adjustment: Large sample	DF: min = 625.27
	avg = 5.68e+08
	max = 2.57e+09
Model F test: Equal FMI	F(17, 1.1e+06) = 10.43
	Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0539797	.0249538	-2.16	0.031	-.1028882 -.0050711
w1Agecent48	-.0239559	.0065353	-3.67	0.000	-.0367649 -.011147
c.timew1w3#c.w1Agecent48	-.0029175	.0014056	-2.08	0.038	-.0056725 -.0001625
timew1w3	0 (omitted)				
Sex					
Men	-.2101194	.1219171	-1.72	0.085	-.4490724 .0288337
Sex#c.timew1w3					
Men	-.0016925	.0262759	-0.06	0.949	-.0531923 .0498072
timew1w3	0 (omitted)				
Race					
AfrAm	-.9540624	.1206225	-7.91	0.000	-1.190478 -.7176466
Race#c.timew1w3					
AfrAm	.0279923	.0261401	1.07	0.284	-.0232413 .0792259
timew1w3	0 (omitted)				
PovStat					
Below	-.4078691	.1237642	-3.30	0.001	-.6504424 -.1652958

PovStat#c.timew1w3 Below	- .0545116	.0262245	-2.08	0.038	-.1059107	-.0031124
timew1w3 invmillsmms	0 (omitted)	.0016969	.0037267	0.46	0.649	-.0056073
c.timew1w3#c.invmillsmms	-.0005447	.0007308	-0.75	0.456	-.0019769	.0008876
timew1w3 zw1w3HCYTRAJ	0 (omitted)	-.0458115	.0633654	-0.72	0.470	-.1700055
c.timew1w3#c.zw1w3HCYTRAJ	-.0199883	.013378	-1.49	0.135	-.0462087	.0062322
w1Folatecenter14p3	.0043251	.0092098	0.47	0.639	-.0137608	.022411
c.timew1w3#c.w1Folatecenter14p3	.000776	.0019048	0.41	0.684	-.0029577	.0045096
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0011046	.0077516	-0.14	0.887	-.0163024	.0140932
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.000883	.001582	-0.56	0.577	-.0039837	.0022178
_cons	7.548349	.1115787	67.65	0.000	7.329659	7.76704

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.1123372	.0394467	.0564454
sd(_cons)	1.549402	.0471769	1.459642
sd(Residual)	1.368608	.0466844	1.280099
			1.463235

32 .
33 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4fobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,741
Group variable: HNDID	Number of groups = 1,414
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0026
	Largest FMI = 0.0230
	DF: min = 7,758.80
	avg = 1.40e+09
	max = 2.07e+10
Model F test: Equal FMI	F(17, 6.2e+06) = 10.99
	Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0616357	.0494994	1.25	0.213	-.0353813 .1586527
w1Agecent48	-.0974457	.015494	-6.29	0.000	-.1278133 -.0670781
c.timew1w3#c.w1Agecent48	-.0027009	.0028132	-0.96	0.337	-.0082147 .0028128
timew1w3	0 (omitted)				
Sex					
Men	1.059379	.2876295	3.68	0.000	.495636 1.623123
Sex#c.timew1w3					
Men	.0026265	.0523894	0.05	0.960	-.1000549 .1053079
timew1w3	0 (omitted)				
Race					
AfrAm	-1.900266	.2845793	-6.68	0.000	-2.458031 -1.342501
Race#c.timew1w3					
AfrAm	-.0395741	.0522599	-0.76	0.449	-.1420017 .0628534
timew1w3	0 (omitted)				
PovStat					
Below	-1.4758	.2944426	-5.01	0.000	-2.052897 -.8987032
PovStat#c.timew1w3					
Below	.0258446	.052557	0.49	0.623	-.0771652 .1288544
timew1w3	0 (omitted)				
invmillsmms	.010248	.0093287	1.10	0.272	-.0080359 .0285319
c.timew1w3#c.invmillsmms	-.0011939	.0015734	-0.76	0.448	-.0042777 .00189
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.1348838	.1493105	-0.90	0.366	-.427527 .1577595
c.timew1w3#c.zw1w3HCYTRAJ	-.0368182	.0264564	-1.39	0.164	-.0886718 .0150354
w1Folatecenter14p3	.0640433	.021083	3.04	0.002	.02272 .1053666
c.timew1w3#c.w1Folatecenter14p3	-.0025421	.0038361	-0.66	0.508	-.0100612 .004977
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0248961	.0183378	-1.36	0.175	-.0608431 .0110508
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0000945	.0032088	0.03	0.976	-.0061946 .0063837
_cons	20.17331	.2626345	76.81	0.000	19.65855 20.68806

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0714402	.3059086	.0000162 315.3599
sd(_cons)	4.201563	.1030684	4.004332 4.408508
sd(Residual)	3.036507	.0979613	2.85045 3.234708

34 .

35 . mi estimate: mixed DigitSpanFwd c.timew1w3#c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
 > if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,686
Number of groups = 1,412
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI = 0.0046
Largest FMI = 0.0755
DF: min = 749.06
avg = 6.79e+08
max = 6.49e+09
F(17, 1.9e+06) = 7.46
Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0228624	.0196894	1.16	0.246	-.0157282 .0614529
w1Agecent48	-.0199073	.0062975	-3.16	0.002	-.0322501 -.0075644
c.timew1w3#c.w1Agecent48	-.0035178	.0011128	-3.16	0.002	-.0056989 -.0013368
timew1w3	0 (omitted)				
Sex					
Men	.23468	.1169529	2.01	0.045	.0054565 .4639035
Sex#c.timew1w3					
Men	-.030818	.020847	-1.48	0.139	-.0716774 .0100414
timew1w3	0 (omitted)				
Race					
AfrAm	-.6824103	.1156045	-5.90	0.000	-.9089909 -.4558296
Race#c.timew1w3					
AfrAm	-.0159111	.0207	-0.77	0.442	-.0564823 .0246601
timew1w3	0 (omitted)				
PovStat					
Below	-.4673028	.1194748	-3.91	0.000	-.7014691 -.2331366
PovStat#c.timew1w3					
Below	-.022242	.0208495	-1.07	0.286	-.0631062 .0186222
timew1w3	0 (omitted)				
invmillsmms	.0056174	.0037699	1.49	0.136	-.0017715 .0130062
c.timew1w3#c.invmillsmms	-.0004931	.0006156	-0.80	0.423	-.0016998 .0007135
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0671715	.0604507	-1.11	0.266	-.1856527 .0513097
c.timew1w3#c.zw1w3HCYTRAJ	-.016437	.0104418	-1.57	0.115	-.0369025 .0040285

w1Folatecenter14p3	.0173335	.0088855	1.95	0.051	-.00011	.034777
c.timew1w3#c.w1Folatecenter14p3	-.0006147	.0015242	-0.40	0.687	-.003602	.0023727
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0040051	.00743	-0.54	0.590	-.0185677	.0105575
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.000868	.0012793	-0.68	0.497	-.0033753	.0016393
_cons	7.788349	.1071155	72.71	0.000	7.578407	7.998292

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0866923	.0399914	.035101	.2141127
sd(_cons)	1.763128	.0420165	1.68267	1.847432
sd(Residual)	1.155582	.039319	1.081032	1.235274

36 .
37 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,673
Group variable: HNDID	Number of groups = 1,413
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = .
	Largest FMI = .
DF adjustment: Large sample	DF: min = 0.00
	avg = .
	max = .
Model F test: Equal FMI	F(17, 2.6e+06) = 11.70
	Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0015543	.0204526	0.08	0.939	-.038532	.0416407
w1Agecent48	-.0268591	.0061525	-4.37	0.000	-.0389178	-.0148005
c.timew1w3#c.w1Agecent48	-.0011969	.0011573	-1.03	0.301	-.0034652	.0010714
timew1w3	0 (omitted)					
Sex						
Men	-.0417443	.1144358	-0.36	0.715	-.2660343	.1825456
Sex#c.timew1w3						
Men	-.013491	.0216962	-0.62	0.534	-.0560148	.0290329
timew1w3	0 (omitted)					
Race						
AfrAm	-1.025778	.1129918	-9.08	0.000	-1.247238	-.8043185

Race#c.timew1w3	AfrAm	-.0136712	.0215312	-0.63	0.525	-.0558715	.0285291
	timew1w3	0	(omitted)				
PovStat	Below	-.5390884	.1168727	-4.61	0.000	-.7681546	-.3100222
PovStat#c.timew1w3	Below	.0028598	.0216553	0.13	0.895	-.0395838	.0453034
timew1w3	invmillsmms	0	(omitted)				
		.00601	.0036812	1.63	0.103	-.0012051	.0132251
c.timew1w3#c.invmillsmms		-.0004749	.0006379	-0.74	0.457	-.0017252	.0007754
timew1w3	zw1w3HCYTRAJ	0	(omitted)				
		-.1102728	.0590175	-1.87	0.062	-.225945	.0053994
c.timew1w3#c.zw1w3HCYTRAJ		.0001052	.0108084	0.01	0.992	-.0210789	.0212894
w1Folatecenter14p3		.0197548	.0085219	2.32	0.020	.0030474	.0364621
c.timew1w3#c.w1Folatecenter14p3		-.0009012	.0015887	-0.57	0.571	-.0040151	.0022127
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0102806	.0073295	-1.40	0.161	-.024648	.0040868
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0018802	.0013318	-1.41	0.158	-.0044904	.0007301
_cons		6.436524	.1046136	61.53	0.000	6.231485	6.641563

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	9.60e-07	.	.	.
sd(_cons)	1.638735	.0418522	1.558726	1.722852
sd(Residual)	1.239655	.0247624	1.19206	1.289151

38 .

39 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt > c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 /// > if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,736
Group variable: HNDID	Number of groups = 1,414
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0017
	Largest FMI = 0.0089
	DF: min = 51,435.93
	avg = 9.25e+09
	max = 1.31e+11
Model F test: Equal FMI	F(17, 1.5e+07) = 6.09
	Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0257239	.0156594	-1.64	0.100	-.0564157 .004968
w1Agecent48	-.0075138	.0035159	-2.14	0.033	-.0144049 -.0006227
c.timew1w3#c.w1Agecent48	-.001929	.0008925	-2.16	0.031	-.0036783 -.0001796
timew1w3	0 (omitted)				
Sex					
Men	.1009993	.065365	1.55	0.122	-.0271138 .2291123
Sex#c.timew1w3					
Men	.0093935	.0166274	0.56	0.572	-.0231956 .0419825
timew1w3	0 (omitted)				
Race					
AfrAm	-.3933361	.0645281	-6.10	0.000	-.5198088 -.2668634
Race#c.timew1w3					
AfrAm	.0178471	.0165048	1.08	0.280	-.0145017 .050196
timew1w3	0 (omitted)				
PovStat					
Below	-.0662617	.0670053	-0.99	0.323	-.1975897 .0650662
PovStat#c.timew1w3					
Below	-.0094606	.0166589	-0.57	0.570	-.0421115 .0231903
timew1w3	0 (omitted)				
invmillsmms	.0001772	.0021321	0.08	0.934	-.0040017 .0043561
c.timew1w3#c.invmillsmms	-.0001403	.0004968	-0.28	0.778	-.001114 .0008334
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0303166	.033906	-0.89	0.371	-.0967713 .036138
c.timew1w3#c.zw1w3HCYTRAJ	-.0140551	.0083502	-1.68	0.092	-.0304211 .002311
w1Folatecenter14p3	.0127384	.0048471	2.63	0.009	.0032381 .0222387
c.timew1w3#c.w1Folatecenter14p3	-.0004272	.0012278	-0.35	0.728	-.0028336 .0019792
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0057571	.0041825	1.38	0.169	-.0024406 .0139548
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.002758	.0010258	-2.69	0.007	-.0047686 -.0007475
_cons	9.023914	.0595759	151.47	0.000	8.907147 9.14068

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0362222	.0406097	.0040241 .326047
sd(_cons)	.6786631	.0299904	.6223565 .7400639
sd(Residual)	.9671845	.0250765	.9192634 1.017604

```

40 .
41 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =    2,670

Group variable: HNDID                Number of groups =    1,397
                                         Obs per group:
                                         min =         1
                                         avg =        1.9
                                         max =        2
                                         Average RVI =  0.0038
                                         Largest FMI =  0.0392
DF adjustment: Large sample          DF:     min =  2,706.85
                                         avg = 2.77e+10
                                         max = 4.93e+11
Model F test: Equal FMI             F(  17, 2.7e+06) =  22.14
                                         Prob > F = 0.0000

```

	LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0017864	.0041188	0.43	0.664	-.0062863	.0098592
w1Agecent48	.0117407	.0010747	10.92	0.000	.0096344	.013847
c.timew1w3#c.w1Agecent48	.0006432	.0002363	2.72	0.006	.00018	.0011064
timew1w3	0	(omitted)				
Sex						
Men	.0925501	.0199828	4.63	0.000	.0533845	.1317156
Sex#c.timew1w3	.0006833	.0044068	0.16	0.877	-.0079538	.0093204
Men						
timew1w3	0	(omitted)				
Race						
AfrAm	.1826457	.0196453	9.30	0.000	.1441415	.2211498
Race#c.timew1w3	.000389	.0043502	0.09	0.929	-.0081373	.0089153
AfrAm						
timew1w3	0	(omitted)				
PovStat						
Below	.0874066	.0204319	4.28	0.000	.0473608	.1274523
PovStat#c.timew1w3	.0046018	.0044082	1.04	0.297	-.004038	.0132417
Below						
timew1w3	0	(omitted)				
invmillsmms	.0003067	.000637	0.48	0.630	-.0009418	.0015551
c.timew1w3#c.invmillsmms	-.0001407	.0001288	-1.09	0.274	-.0003931	.0001117
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.029443	.0106126	2.77	0.006	.0086426	.0502434
c.timew1w3#c.zw1w3HCYTRAJ	-.000465	.0022695	-0.20	0.838	-.0049132	.0039832

w1Folatecenter14p3	-.0022154	.0014929	-1.48	0.138	-.0051414	.0007106
c.timew1w3#c.w1Folatecenter14p3	.0001452	.0003318	0.44	0.662	-.0005054	.0007958
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0000223	.0014496	0.02	0.988	-.002819	.0028635
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0001031	.0003107	0.33	0.740	-.0005057	.000712
_cons	3.276704	.0181214	180.82	0.000	3.241186	3.312221

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0254195	.0055333	.0165913
sd(_cons)	.2647259	.0078795	.2497242
sd(Residual)	.2355711	.0078442	.2206878
			.2514582

42 .

43 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
 > if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,578

Group variable: HNDID

Number of groups	=	1,383
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI	=	0.0086
Largest FMI	=	0.0606

DF adjustment: Large sample

DF:	min	=	1,151.13
	avg	=	9.16e+08
	max	=	9.37e+09

Model F test: Equal FMI

F(17,544324.0)	=	25.22
Prob > F	=	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0033904	.0060568	0.56	0.576	-.0084807
w1Agecent48	.0185896	.001821	10.21	0.000	.0150205
c.timew1w3#c.w1Agecent48	.0005271	.0003501	1.51	0.132	-.000159
timew1w3		0 (omitted)			
Sex					
Men	.0523599	.0338217	1.55	0.122	-.0139295
Sex#c.timew1w3					
Men	-.0038369	.0065253	-0.59	0.557	-.0166263
timew1w3		0 (omitted)			
Race					
AfrAm	.3997506	.0332739	12.01	0.000	.3345349
					.4649662

Race#c.timew1w3							
AfrAm	.0026061	.0064451	0.40	0.686	-.0100261	.0152383	
timew1w3	0	(omitted)					
PovStat							
Below	.2344016	.0345914	6.78	0.000	.1666037	.3021996	
PovStat#c.timew1w3							
Below	.0049119	.0065686	0.75	0.455	-.0079623	.017786	
timew1w3	0	(omitted)					
invmillsmms	-.0025677	.0010779	-2.38	0.017	-.0046805	-.000455	
c.timew1w3#c.invmillsmms	-.0005597	.0004954	-1.13	0.259	-.0015307	.0004112	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.0374064	.017929	2.09	0.037	.0022661	.0725467	
c.timew1w3#c.zw1w3HCYTRAJ	.0069004	.0033538	2.06	0.040	.0003271	.0134737	
w1Folatecenter14p3	-.0005794	.00257	-0.23	0.822	-.0056205	.0044617	
c.timew1w3#c.w1Folatecenter14p3	.0000832	.0004865	0.17	0.864	-.0008705	.0010368	
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0045292	.0024618	1.84	0.066	-.000301	.0093593	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0000317	.0004675	-0.07	0.946	-.0009483	.0008849	
_cons	4.239126	.0307204	137.99	0.000	4.178915	4.299337	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.16e-06	.0003106	4.5e-235	3.0e+222
sd(_cons)	.4791313	.0130689	.4541894	.5054429
sd(Residual)	.3611651	.0076973	.3463894	.3765711

```

44 .
45 .
46 . save, replace
    file finaldata_imputed_FINAL.dta saved

47 .
48 .
49 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
50 .

```

51 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
 > if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
 Number of obs = 2,621
 Number of groups = 1,398
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = .
 Largest FMI = .
 DF: min = 0.00
 avg = .
 max = .
 F(31, 55756.2) = 34.05
 Prob > F = 0.0000

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0912442	.0494342	1.85	0.065	-.0056762	.1881646
w1Agecent48	-.0188315	.004862	-3.87	0.000	-.0283618	-.0093013
c.timew1w3#c.w1Agecent48	-.0030474	.0011823	-2.58	0.010	-.0053648	-.0007301
timew1w3	0 (omitted)					
Sex						
Men	-.3391336	.0900248	-3.77	0.000	-.5155794	-.1626878
Sex#c.timew1w3	.0208076	.0221592	0.94	0.348	-.0226248	.0642399
Men						
timew1w3	0 (omitted)					
Race						
AfrAm	-.2183476	.0915267	-2.39	0.017	-.3977456	-.0389497
Race#c.timew1w3	-.0196467	.0227273	-0.86	0.387	-.0641923	.024899
AfrAm						
timew1w3	0 (omitted)					
PovStat						
Below	-.0537024	.0935689	-0.57	0.566	-.2370945	.1296897
PovStat#c.timew1w3	-.032112	.022562	-1.42	0.155	-.0763328	.0121088
Below						
timew1w3	0 (omitted)					
w1edubr						
2	.5205831	.1863938	2.79	0.005	.1552178	.8859483
3	.6871353	.2040618	3.37	0.001	.2870477	1.087223
w1edubr#c.timew1w3						
2	-.0669923	.0468582	-1.43	0.153	-.1588519	.0248673
3	-.0628627	.0507411	-1.24	0.215	-.1623559	.0366305

	timew1w3	0 (omitted)					
	w1WRATtotalcent42	.1457738	.0063687	22.89	0.000	.1332901	.1582574
c.timew1w3#c.w1WRATtotalcent42		-.006909	.0017222	-4.01	0.000	-.0102851	-.003533
	timew1w3	0 (omitted)					
	1.w1smoke	.0172859	.1041164	0.17	0.868	-.1880044	.2225762
w1smoke#c.timew1w3		-.0520757	.0248063	-2.10	0.036	-.1007	-.0034515
	timew1w3	0 (omitted)					
	1.w1currdrugs	-.0782494	.1334524	-0.59	0.560	-.3444891	.1879903
w1currdrugs#c.timew1w3		.0159241	.0305798	0.52	0.603	-.0442507	.076099
	timew1w3	0 (omitted)					
w1hei2010_total_scorecent43		-.0042634	.004642	-0.92	0.363	-.0135941	.0050674
c.timew1w3#c.w1hei2010_total_scorecent43		.000411	.0012144	0.34	0.736	-.0020247	.0028467
	timew1w3	0 (omitted)					
	w1BMIcon30	-.0044348	.0060548	-0.73	0.464	-.0163024	.0074329
c.timew1w3#c.w1BMIcon30		-.0004304	.0014659	-0.29	0.769	-.0033036	.0024428
	timew1w3	0 (omitted)					
	invmillsmms	.0075947	.0027849	2.73	0.006	.0021363	.0130531
c.timew1w3#c.invmillsmms		-.0018576	.0006103	-3.04	0.002	-.0030538	-.0006614
	timew1w3	0 (omitted)					
	zw1w3HCYTRAJ	-.0250076	.0455487	-0.55	0.583	-.1142815	.0642664
c.timew1w3#c.zw1w3HCYTRAJ		.0060964	.0115898	0.53	0.599	-.0166192	.0288119
	w1Folatecenter14p3	.005427	.0068722	0.79	0.430	-.0080479	.0189019
c.timew1w3#c.w1Folatecenter14p3		-.0005186	.001774	-0.29	0.770	-.0039958	.0029586
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0108522	.0057102	-1.90	0.057	-.0220486	.0003442
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0013976	.0016119	0.87	0.386	-.001762	.0045572
	_cons	27.44289	.1955507	140.34	0.000	27.05955	27.82624

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	3.62e-07
sd(_cons)	1.001705	.0428156	.9211998	1.089245	
sd(Residual)	1.213004	.0265271	1.16211	1.266127	

```

52 .
53 .
54 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,621
Number of groups = 1,398
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0378
Largest FMI = 0.3467
DF: min = 40.29
        avg = 3531972.47
        max = 8.63e+07
F( 31,70497.9) = 30.35
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4143084	.3990299	1.04	0.299	.3678927	1.196509
w1Agecent48	-.1669696	.0381183	-4.38	0.000	-.2416861	-.0922531
c.timew1w3#c.w1Agecent48	-.0222762	.0096106	-2.32	0.020	-.0411135	-.0034389
timew1w3	0 (omitted)					
Sex						
Men	-1.911991	.7063452	-2.71	0.007	-3.296406	-.5275759
Sex#c.timew1w3						
Men	.120397	.1803635	0.67	0.504	-.2331255	.4739194
timew1w3	0 (omitted)					
Race						
AfrAm	-3.258092	.7159018	-4.55	0.000	-4.661256	-1.854928
Race#c.timew1w3						
AfrAm	-.0019575	.1845521	-0.01	0.992	-.3636782	.3597632
timew1w3	0 (omitted)					
PovStat						
Below	-.6448858	.7340983	-0.88	0.380	-2.083694	.7939229
PovStat#c.timew1w3						
Below	-.2726452	.1834846	-1.49	0.137	-.6322691	.0869787
timew1w3	0 (omitted)					
w1edubr						
2	3.955312	1.458008	2.71	0.007	1.097537	6.813086
3	5.963517	1.59575	3.74	0.000	2.835276	9.091759
w1edubr#c.timew1w3						
2	-.543229	.3786825	-1.43	0.151	-1.285509	.1990509

	3	- .4063164	.4103307	-0.99	0.322	-1.21077	.3981372
timew1w3 w1WRATtotalcent42		0 .9519095	(omitted) .0498827	19.08	0.000	.8541351	1.049684
c.timew1w3#c.w1WRATtotalcent42		- .0311551	.0139679	-2.23	0.026	-.0585371	-.0037731
timew1w3 1.w1smoke		0 -.508089	(omitted) .7989369	-0.64	0.525	-2.078189	1.062011
w1smoke#c.timew1w3 1		-.2919968	.1997209	-1.46	0.144	-.6834437	.0994501
timew1w3 1.w1currdrugs		0 -.0750982	(omitted) 1.020386	-0.07	0.941	-2.098223	1.948027
w1currdrugs#c.timew1w3 1		.0704671	.2522456	0.28	0.780	-.4270111	.5679453
timew1w3 w1hei2010_total_scorecent43		0 -.026554	(omitted) .034967	-0.76	0.450	-.0960618	.0429539
c.timew1w3#c.w1hei2010_total_scorecent43		.0065856	.010134	0.65	0.519	-.0138915	.0270626
timew1w3 w1BMIcon30		0 -.0361892	(omitted) .0472963	-0.77	0.444	-.1288883	.05651
c.timew1w3#c.w1BMIcon30		-.0044342	.0119248	-0.37	0.710	-.0278075	.0189391
timew1w3 invmillsmms		0 .0417689	(omitted) .0218487	1.91	0.056	-.0010538	.0845916
c.timew1w3#c.invmillsmms		-.0097829	.0049723	-1.97	0.049	-.0195284	-.0000374
timew1w3 zw1w3HCYTRAJ		0 -.0103813	(omitted) .3569524	-0.03	0.977	-.7099952	.6892326
c.timew1w3#c.zw1w3HCYTRAJ		.0175148	.0941451	0.19	0.852	-.1670068	.2020365
w1Folatecenter14p3		.0680259	.0537112	1.27	0.205	-.0372718	.1733236
c.timew1w3#c.w1Folatecenter14p3		-.0134237	.0145148	-0.92	0.355	-.0418817	.0150343
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0714224	.0440633	-1.62	0.105	-.1577855	.0149406
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0094891	.0129908	0.73	0.465	-.0159727	.0349509
_cons		75.11062	1.533549	48.98	0.000	72.10441	78.11683

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0001348	.014789	5.21e-98	3.49e+89
sd(_cons)	7.395019	.3180589	6.797183	8.045438
sd(Residual)	9.883987	.2022582	9.495411	10.28846

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55 .
56 .
57 .
58 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,435
Number of groups = 1,391
Obs per group:
    min = 1
    avg = 1.8
    max = 2
    Average RVI = 0.0425
    Largest FMI = 0.4226
    DF: min = 27.41
        avg = 327,393.24
        max = 3603392.50
    F( 31, 56876.6) = 51.07
    Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.192675	.1546703	-7.71	0.000	-1.49583 - .8895201
w1Agecent48		-.1431938	.0188023	-7.62	0.000	-.1800471 - .1063405
c.timew1w3#c.w1Agecent48		-.0082757	.0040327	-2.05	0.040	-.0161798 - .0003715
timew1w3		0	(omitted)			
Sex						
Men		-2.111968	.3493727	-6.05	0.000	-2.796727 -1.42721
Sex#c.timew1w3						
Men		-.1824184	.0754606	-2.42	0.016	-.3303193 -.0345175
timew1w3		0	(omitted)			
Race						
AfrAm		-2.022172	.3578252	-5.65	0.000	-2.723617 -1.320727
Race#c.timew1w3						
AfrAm		.1036004	.0774419	1.34	0.181	-.0482112 .255412
timew1w3		0	(omitted)			
PovStat						
Below		-.3332974	.3612488	-0.92	0.356	-1.041341 .3747459
PovStat#c.timew1w3						
Below		-.0505066	.0760752	-0.66	0.507	-.1996127 .0985995
timew1w3		0	(omitted)			
w1edubr						
2		-.4776864	.7090827	-0.67	0.501	-1.868521 .9131484
3		1.822012	.771964	2.36	0.018	.3080464 3.335978
w1edubr#c.timew1w3						

	2	.1152591	.1451961	0.79	0.427	-.1693415	.3998598
	3	-.0427298	.1594269	-0.27	0.789	-.3552091	.2697496
timew1w3	w1WRATtotalcent42	0 .2388611	(omitted) .024273	9.84	0.000	.1912856	.2864366
c.timew1w3#c.w1WRATtotalcent42		-.0053281	.0051534	-1.03	0.301	-.0154289	.0047728
timew1w3	1.w1smoke	0 -.1231935	(omitted) .384766	-0.32	0.749	-.8801369	.6337499
w1smoke#c.timew1w3	1	-.0213257	.0901778	-0.24	0.813	-.1995802	.1569287
timew1w3	1.w1currdrugs	0 -.4682989	(omitted) .4450589	-1.05	0.293	-1.34084	.4042424
w1currdrugs#c.timew1w3	1	.0863271	.1004579	0.86	0.390	-.1109232	.2835774
timew1w3	w1hei2010_total_scorecent43	0 .0322037	(omitted) .0190085	1.69	0.102	-.0067711	.0711784
c.timew1w3#c.w1hei2010_total_scorecent43		-.0042409	.003998	-1.06	0.291	-.012171	.0036892
timew1w3	w1BMIcon30	0 -.0046109	(omitted) .0233653	-0.20	0.844	-.0504092	.0411873
c.timew1w3#c.w1BMIcon30		-.0015694	.004955	-0.32	0.751	-.0112812	.0081424
timew1w3	invmillsmms	0 .0171701	(omitted) .0102971	1.67	0.095	-.0030118	.0373521
c.timew1w3#c.invmillsmms		-.0005785	.0019996	-0.29	0.772	-.0044977	.0033407
timew1w3	zw1w3HCYTRAJ	0 .3768763	(omitted) .1773571	2.12	0.034	.0292623	.7244904
c.timew1w3#c.zw1w3HCYTRAJ		-.0494432	.0375246	-1.32	0.188	-.1229916	.0241053
w1Folatecenter14p3		-.0480965	.0264377	-1.82	0.069	-.1000045	.0038115
c.timew1w3#c.w1Folatecenter14p3		.0111086	.0055112	2.02	0.044	.0003049	.0219123
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0285996	.0210908	-1.36	0.175	-.0699369	.0127378
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0035272	.0045318	-0.78	0.436	-.0124094	.0053549
_cons		26.63254	.7395944	36.01	0.000	25.18256	28.08251

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.3808663	.0939783	.2348147	.6177602	
sd(_cons)	4.378571	.1299679	4.131107	4.64086	
sd(Residual)	3.636905	.1306472	3.389644	3.902202	

```

59 .
60 .
61 .
62 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,313
Number of groups = 1,365
Obs per group:
    min = 1
    avg = 1.7
    max = 2
    Average RVI = 0.0697
    Largest FMI = 0.3491
    DF: min = 39.76
        avg = 2987351.21
        max = 9.37e+07
    F( 31,22232.2) = 31.57
    Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.3473898	.0748511	-4.64	0.000	-.4940987 -.2006809
w1Agecent48		-.0795971	.0090393	-8.81	0.000	-.0973138 -.0618804
c.timew1w3#c.w1Agecent48		-.0036836	.0019954	-1.85	0.065	-.0075949 .0002277
timew1w3		0	(omitted)			
Sex						
Men		-.9364632	.1682972	-5.56	0.000	-1.266321 -.6066051
Sex#c.timew1w3						
Men		-.0464296	.0368218	-1.26	0.207	-.1186003 .0257411
timew1w3		0	(omitted)			
Race						
AfrAm		-1.210144	.1720473	-7.03	0.000	-1.547424 -.8728635
Race#c.timew1w3						
AfrAm		.0236813	.0376046	0.63	0.529	-.0500282 .0973907
timew1w3		0	(omitted)			
PovStat						
Below		-.0744073	.1744753	-0.43	0.670	-.4163963 .2675818
PovStat#c.timew1w3						
Below		-.0341605	.0370324	-0.92	0.356	-.1067433 .0384224
timew1w3		0	(omitted)			
w1edubr						
2		-.154123	.339934	-0.45	0.650	-.8206014 .5123553
3		.5507037	.3687934	1.49	0.135	-.1722146 1.273622
w1edubr#c.timew1w3						

	2	- .0018522	.0702204	- .03	0.979	- .1394936	.1357892
	3	.0063603	.077314	0.08	0.934	- .1451779	.1578986
timew1w3		0	(omitted)				
w1WRATtotalcent42		.1006751	.0117851	8.54	0.000	.0775738	.1237764
c.timew1w3#c.w1WRATtotalcent42		- .0041097	.0024964	-1.65	0.100	- .0090025	.0007831
timew1w3		0	(omitted)				
1.w1smoke		- .0146973	.2013575	-0.07	0.942	- .4159773	.3865828
w1smoke#c.timew1w3							
1		- .0223784	.0459794	-0.49	0.628	- .1139963	.0692394
timew1w3		0	(omitted)				
1.w1currdrugs		- .2267761	.2317671	-0.98	0.329	- .68452	.2309679
w1currdrugs#c.timew1w3							
1		- .027808	.0517203	-0.54	0.592	- .1301505	.0745346
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0090333	.0088514	1.02	0.314	- .0088594	.026926
c.timew1w3#c.w1hei2010_total_scorecent43		- .0004852	.0019953	-0.24	0.808	- .0044532	.0034828
timew1w3		0	(omitted)				
w1BMIcon30		.0209594	.0112873	1.86	0.063	- .0011666	.0430854
c.timew1w3#c.w1BMIcon30		- .0018793	.0024421	-0.77	0.442	- .0066662	.0029077
timew1w3		0	(omitted)				
invmillsmms		.0073735	.0048998	1.50	0.132	- .0022299	.0169769
c.timew1w3#c.invmillsmms		- .0004723	.0009443	-0.50	0.617	- .002323	.0013784
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		.2875608	.0867452	3.32	0.001	.1175434	.4575782
c.timew1w3#c.zw1w3HCYTRAJ		- .0327878	.0183859	-1.78	0.075	- .0688235	.003248
w1Folatecenter14p3		- .0019546	.0127167	-0.15	0.878	- .0269221	.023013
c.timew1w3#c.w1Folatecenter14p3		.0010573	.0026432	0.40	0.689	- .0041237	.0062383
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		- .0118863	.0107985	-1.10	0.271	- .0330535	.0092809
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0002632	.0022336	0.12	0.906	- .0041147	.004641
_cons		8.387681	.3571091	23.49	0.000	7.687632	9.08773

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0785741	.1046621	.0057731	1.069424
sd(_cons)	1.999902	.0636942	1.878879	2.12872
sd(Residual)	1.804437	.0613994	1.688022	1.928882

```

63 .
64 .
65 .
66 . mi estimate: mixed BVRTot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,720
Number of groups = 1,412
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0476
Largest FMI = 0.3329
DF: min = 43.57
      avg = 1.72e+08
      max = 6.02e+09
F( 31,45273.6) = 28.08
Prob > F = 0.0000

```

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4513428	.1094005	4.13	0.000	.2369192	.6657665
w1Agecent48	.1219104	.0132421	9.21	0.000	.0959547	.1478661
c.timew1w3##c.w1Agecent48	.0095466	.0027922	3.42	0.001	.0040737	.0150194
timew1w3	0	(omitted)				
Sex						
Men	-1.044251	.2465891	-4.23	0.000	-1.527568	-.5609336
Sex#c.timew1w3						
Men	.0520769	.0518942	1.00	0.316	-.0496343	.1537882
timew1w3	0	(omitted)				
Race						
AfrAm	.4818558	.2489622	1.94	0.053	-.0061204	.969832
Race#c.timew1w3						
AfrAm	.1484757	.0529117	2.81	0.005	.0447685	.252183
timew1w3	0	(omitted)				
PovStat						
Below	.3752276	.2561105	1.47	0.143	-.1267429	.877198
PovStat#c.timew1w3						
Below	.022114	.0528931	0.42	0.676	-.0815546	.1257827
timew1w3	0	(omitted)				
w1edubr						
2	-.6628886	.5069656	-1.31	0.191	-1.656683	.3309059
3	-1.604852	.5549721	-2.89	0.004	-2.692948	-.5167566
w1edubr#c.timew1w3						

		2	.1625128	.1033791	-1.57	0.116	-.3651367	.0401111
		3	-.1264001	.1129889	-1.12	0.263	-.3478556	.0950554
	timew1w3		0	(omitted)				
w1WRATtotalcent42			-.1597728	.0174654	-9.15	0.000	-.1940192	-.1255265
c.timew1w3#c.w1WRATtotalcent42			-.0044254	.0035993	-1.23	0.219	-.0114801	.0026292
	timew1w3		0	(omitted)				
1.w1smoke			.4104866	.2761563	1.49	0.138	-.1330816	.9540548
w1smoke#c.timew1w3								
1			-.0513801	.0582654	-0.88	0.378	-.1655919	.0628317
	timew1w3		0	(omitted)				
1.w1currdrugs			-.2826804	.3766035	-0.75	0.457	-1.041888	.4765269
w1currdrugs#c.timew1w3								
1			.1260539	.0713297	1.77	0.078	-.0140686	.2661764
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0062834	.0119293	-0.53	0.600	-.0300939	.0175271
c.timew1w3#c.w1hei2010_total_scorecent43			-.0034575	.0026422	-1.31	0.192	-.0086687	.0017537
	timew1w3		0	(omitted)				
w1BMIcon30			.0096403	.0165613	0.58	0.561	-.0228226	.0421033
c.timew1w3#c.w1BMIcon30			-.0052251	.0034729	-1.50	0.132	-.012032	.0015817
	timew1w3		0	(omitted)				
invmillsmms			-.0161442	.0076667	-2.11	0.035	-.0311707	-.0011176
c.timew1w3#c.invmillsmms			.0001195	.0014801	0.08	0.936	-.0027815	.0030204
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			-.0552033	.1243233	-0.44	0.657	-.2988739	.1884672
c.timew1w3#c.zw1w3HCYTRAJ			.0673294	.0252867	2.66	0.008	.0177683	.1168906
	w1Folatecenter14p3							
c.timew1w3#c.w1Folatecenter14p3			-.0079756	.0205943	-0.39	0.699	-.0488832	.0329319
c.timew1w3#c.w1Folatecenter14p3			.0004123	.0038556	0.11	0.915	-.0071446	.0079693
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3							
			.0028018	.0155568	0.18	0.857	-.0277057	.0333093
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3			.0038426	.0031107	1.24	0.217	-.0022543	.0099396
	_cons		7.368512	.5332888	13.82	0.000	6.322953	8.414072

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000223	.0038699	7.4e-153	6.7e+142
sd(_cons)	3.158963	.0921326	2.983449	3.344802
sd(Residual)	2.923619	.0580589	2.81201	3.039657

```

67 .
68 .
69 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs     =    2,460

Group variable: HNDID                Number of groups  =    1,392
                                         Obs per group:
                                         min =          1
                                         avg =         1.8
                                         max =         2
                                         Average RVI   =    0.0229
                                         Largest FMI   =    0.1954
                                         DF: min       =   120.55
                                         avg          =  5.56e+08
                                         max          =  1.94e+10
DF adjustment: Large sample
Model F test: Equal FMI             F(  31, 186279.5) =    13.00
                                         Prob > F        =    0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0428648	.0575961	-0.74	0.457	-.1557577 .0700282
	w1Agecent48	-.0142483	.0063516	-2.24	0.025	-.0266972 -.0017994
	c.timew1w3#c.w1Agecent48	-.0029409	.0014277	-2.06	0.039	-.0057391 -.0001427
	timew1w3	0	(omitted)			
	Sex					
	Men	-.286828	.1195371	-2.40	0.016	-.5211178 -.0525381
	Sex#c.timew1w3					
	Men	.0025431	.0268395	0.09	0.925	-.0500614 .0551476
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.6828229	.1210713	-5.64	0.000	-.9201187 -.4455272
	Race#c.timew1w3					
	AfrAm	.0412061	.0273788	1.51	0.132	-.0124555 .0948676
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1185147	.1235765	-0.96	0.338	-.3607206 .1236912
	PovStat#c.timew1w3					
	Below	-.0442696	.0274122	-1.61	0.106	-.0979966 .0094574
	timew1w3	0	(omitted)			
	w1edubr					
	2	.3472112	.2465349	1.41	0.159	-.1360034 .8304258
	3	.4935695	.2682122	1.84	0.066	-.0321681 1.019307
	w1edubr#c.timew1w3					
	2	-.0052449	.0547968	-0.10	0.924	-.1126537 .1021638

	3		- .0258872	.059342	- .44	0.663	- .1421992	.0904248
	timew1w3		0	(omitted)				
w1WRATtotalcent42			.0758088	.0084046	9.02	0.000	.0593359	.0922817
c.timew1w3#c.w1WRATtotalcent42			.0032688	.0019033	1.72	0.086	- .0004616	.0069992
	timew1w3		0	(omitted)				
1.w1smoke			-.1792222	.139656	-1.28	0.202	- .4554884	.0970439
	w1smoke#c.timew1w3		1					
	timew1w3		0	(omitted)				
1.w1currdrugs			.2897957	.1541233	1.88	0.060	- .0123475	.591939
	w1currdrugs#c.timew1w3		1					
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0038472	.005694	-0.68	0.501	- .0151204	.007426
c.timew1w3#c.w1hei2010_total_scorecent43			.0000906	.0012605	0.07	0.943	- .0023799	.0025612
	timew1w3		0	(omitted)				
w1BMIcon30			-.0249359	.0081083	-3.08	0.002	- .0408294	- .0090423
c.timew1w3#c.w1BMIcon30			.000079	.0017969	0.04	0.965	- .003443	.003601
	timew1w3		0	(omitted)				
invmillsmms			.0017836	.0035473	0.50	0.615	- .0051689	.0087362
c.timew1w3#c.invmillsmms			-.0006342	.0007298	-0.87	0.385	- .0020646	.0007962
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			-.0120268	.0604454	-0.20	0.842	- .130498	.1064443
c.timew1w3#c.zw1w3HCYTRAJ			-.0202761	.0133003	-1.52	0.127	- .0463442	.005792
	w1Folatecenter14p3							
c.timew1w3#c.w1Folatecenter14p3			-.0048667	.009174	-0.53	0.596	- .0228826	.0131492
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3							
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3			.0004273	.0019923	0.21	0.830	- .0034779	.0043325
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3			.0041068	.0073165	0.56	0.575	- .0102337	.0184473
	_cons		6.905892	.2577065	26.80	0.000	6.40077	7.411013

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0994139	.0405414	.0447016	.2210908
sd(_cons)	1.395489	.0461913	1.30783	1.489023
sd(Residual)	1.374404	.0441897	1.290466	1.463802

70 .

```
71 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4fobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,741

Group variable: HNDID

Number of groups = 1,414
Obs per group:

min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0528
Largest FMI = 0.2844

DF adjustment: Large sample

DF: min = 58.94
avg = 2.01e+07
max = 6.77e+08

Model F test: Equal FMI

F(31, 36993.8) = 12.17
Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0272115	.115977	-0.23	0.815	-.2546565 .2002335
w1Agecent48		-.0878203	.0150862	-5.82	0.000	-.1173895 -.0582511
c.timew1w3#c.w1Agecent48		-.0022243	.002885	-0.77	0.441	-.0078789 .0034302
timew1w3		0	(omitted)			
Sex						
Men		1.26767	.2806059	4.52	0.000	.7176893 1.81765
Sex#c.timew1w3						
Men		-.004281	.0539488	-0.08	0.937	-.1100192 .1014572
timew1w3		0	(omitted)			
Race						
AfrAm		-1.28365	.284781	-4.51	0.000	-1.841815 -.7254844
Race#c.timew1w3						
AfrAm		-.0301373	.055133	-0.55	0.585	-.1381979 .0779234
timew1w3		0	(omitted)			
PovStat						
Below		-.5769357	.2935949	-1.97	0.049	-1.152388 -.0014838
PovStat#c.timew1w3						
Below		.020681	.0553271	0.37	0.709	-.0877591 .1291212
timew1w3		0	(omitted)			
w1edubr						
2		-.2947676	.5776838	-0.51	0.610	-1.427079 .8375442
3		.9505172	.6277364	1.51	0.130	-.2799 2.180935
w1edubr#c.timew1w3						
2		.0940467	.110266	0.85	0.394	-.1222559 .3103493
3		.0552365	.1214025	0.45	0.649	-.1829637 .2934366

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1602903	.0194936	8.22	0.000	.1220831	.1984975
c.timew1w3#c.w1WRATtotalcent42		.0023209	.0037456	0.62	0.535	-.0050205	.0096624
	timew1w3	0	(omitted)				
1.w1smoke		-.4919735	.3326607	-1.48	0.144	-1.155663	.171716
w1smoke#c.timew1w3							
1		.0338558	.062682	0.54	0.589	-.0892838	.1569955
	timew1w3	0	(omitted)				
1.w1currdrugs		.2700384	.3914296	0.69	0.492	-.5063478	1.046425
w1currdrugs#c.timew1w3							
1		-.0212912	.0716518	-0.30	0.766	-.1617782	.1191957
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0234152	.0132791	1.76	0.083	-.0031568	.0499872
c.timew1w3#c.w1hei2010_total_scorecent43		-.0030308	.0026027	-1.16	0.244	-.0081357	.002074
	timew1w3	0	(omitted)				
w1BMIcon30		.020069	.0191079	1.05	0.294	-.0173977	.0575356
c.timew1w3#c.w1BMIcon30		.0026249	.0036056	0.73	0.467	-.0044421	.009692
	timew1w3	0	(omitted)				
invmillsmms		.0081755	.0088929	0.92	0.358	-.0092541	.0256052
c.timew1w3#c.invmillsmms		-.001359	.0015777	-0.86	0.389	-.0044512	.0017331
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0378308	.1421304	-0.27	0.790	-.3164014	.2407398
c.timew1w3#c.zw1w3HCYTRAJ		-.0349531	.0265617	-1.32	0.188	-.0870134	.0171072
	w1Folatecenter14p3						
		.0317012	.0208726	1.52	0.129	-.0092098	.0726122
c.timew1w3#c.w1Folatecenter14p3		-.0002323	.0040317	-0.06	0.954	-.0081352	.0076706
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
		-.0118544	.0174258	-0.68	0.496	-.04601	.0223012
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0001346	.0032445	-0.04	0.967	-.006494	.0062247
	_cons	19.27321	.608733	31.66	0.000	18.07978	20.46664

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0902775	.2317214	.0005899	13.81709
sd(_cons)	3.873714	.0994671	3.683587	4.073655
sd(Residual)	3.029759	.0945493	2.849999	3.220857

72 .

```
73 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4gobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,686

Group variable: HNDID

Number of groups = 1,412
Obs per group:

min =	1
avg =	1.9
max =	2

Average RVI = 0.0681
Largest FMI = 0.4393

DF adjustment: Large sample

DF: min = 25.40
avg = 3.31e+07
max = 1.15e+09

Model F test: Equal FMI

F(31, 23200.7) = 15.73
Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0386576	.0454968	0.85	0.396	-.0505162	.1278313
w1Agecent48	-.0086268	.0058205	-1.48	0.138	-.0200347	.0027812
c.timew1w3#c.w1Agecent48	-.0034876	.0011476	-3.04	0.002	-.005737	-.0012383
timew1w3	0 (omitted)					
Sex						
Men	.1913727	.1089883	1.76	0.079	-.0222453	.4049907
Sex#c.timew1w3						
Men	-.0336896	.0214312	-1.57	0.116	-.0756942	.008315
timew1w3	0 (omitted)					
Race						
AfrAm	-.2757693	.1111619	-2.48	0.013	-.4936849	-.0578537
Race#c.timew1w3						
AfrAm	-.0128117	.021817	-0.59	0.557	-.0555727	.0299492
timew1w3	0 (omitted)					
PovStat						
Below	-.1241606	.1138558	-1.09	0.276	-.3473386	.0990173
PovStat#c.timew1w3						
Below	-.0209763	.021971	-0.95	0.340	-.0640395	.0220869
timew1w3	0 (omitted)					
w1edubr						
2	-.0848296	.224455	-0.38	0.705	-.5247643	.3551052
3	.2136465	.2442348	0.87	0.382	-.2650859	.6923789
w1edubr#c.timew1w3						
2	-.0015743	.0428111	-0.04	0.971	-.0854825	.0823338
3	-.0229087	.0469713	-0.49	0.626	-.1149732	.0691558

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1126453	.0076136	14.80	0.000	.0977216	.127569
c.timew1w3#c.w1WRATtotalcent42		.0001693	.0014921	0.11	0.910	-.0027552	.0030938
	timew1w3	0	(omitted)				
1.w1smoke		.1802928	.1276835	1.41	0.162	-.0738739	.4344594
w1smoke#c.timew1w3							
1		-.0154929	.0248139	-0.62	0.533	-.0642314	.0332455
	timew1w3	0	(omitted)				
1.w1currdrugs		.3635959	.1751228	2.08	0.048	.0032151	.7239768
w1currdrugs#c.timew1w3							
1		-.0067705	.0299645	-0.23	0.821	-.0657323	.0521913
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0004653	.0048737	0.10	0.924	-.009163	.0100936
c.timew1w3#c.w1hei2010_total_scorecent43		.0002511	.0010938	0.23	0.819	-.0019071	.0024093
	timew1w3	0	(omitted)				
w1BMIcon30		-.0111594	.0074643	-1.50	0.135	-.0258023	.0034835
c.timew1w3#c.w1BMIcon30		-.0014199	.0014384	-0.99	0.324	-.0042394	.0013995
	timew1w3	0	(omitted)				
invmillsmms		.0054644	.0034284	1.59	0.111	-.0012552	.0121841
c.timew1w3#c.invmillsmms		-.0005173	.0006186	-0.84	0.403	-.0017296	.0006951
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0072677	.0548074	-0.13	0.895	-.1146882	.1001529
c.timew1w3#c.zw1w3HCYTRAJ		-.0165304	.0104815	-1.58	0.115	-.0370737	.0040129
	w1Folatecenter14p3						
		.0073624	.0083056	0.89	0.376	-.0089299	.0236548
c.timew1w3#c.w1Folatecenter14p3		-.0008343	.0016036	-0.52	0.603	-.0039776	.0023089
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
		.0038353	.0068366	0.56	0.575	-.0095665	.0172371
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0009577	.0012964	-0.74	0.460	-.0034987	.0015833
	_cons	7.190657	.2358097	30.49	0.000	6.728442	7.652873

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0900033	.0357414	.0413269	.1960125	
sd(_cons)	1.514866	.0393904	1.439596	1.594073	
sd(Residual)	1.155182	.0374864	1.083998	1.231041	

74 .

```
75 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4hobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,673

Group variable: HNDID

Number of groups = 1,413
Obs per group:

min	=	1
avg	=	1.9
max	=	2

Average RVI = .
Largest FMI = .
DF: min = 0.00
avg = .
max = .

DF adjustment: Large sample

Model F test: Equal FMI

F(31, 36479.3) = 22.46
Prob > F = 0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0321075	.0474493	-0.68	0.499	-.1251281 .060913
w1Agecent48		-.0174673	.0056135	-3.11	0.002	-.0284698 -.0064648
c.timew1w3#c.w1Agecent48		-.0008728	.0011817	-0.74	0.460	-.0031889 .0014433
timew1w3		0	(omitted)			
Sex						
Men		-.0276871	.1050096	-0.26	0.792	-.2335071 .178133
Sex#c.timew1w3						
Men		-.0216256	.0221872	-0.97	0.330	-.0651124 .0218612
timew1w3		0	(omitted)			
Race						
AfrAm		-.5538138	.1059835	-5.23	0.000	-.7615409 -.3460866
Race#c.timew1w3						
AfrAm		-.0228994	.0225681	-1.01	0.310	-.0671328 .0213341
timew1w3		0	(omitted)			
PovStat						
Below		-.1201365	.109385	-1.10	0.272	-.3345396 .0942666
PovStat#c.timew1w3						
Below		.0002102	.0226345	0.01	0.993	-.0441527 .0445731
timew1w3		0	(omitted)			
w1edubr						
2		-.2035196	.2162569	-0.94	0.347	-.6273891 .22035
3		.1435207	.2354661	0.61	0.542	-.3180163 .6050576
w1edubr#c.timew1w3						
2		.0532119	.0441979	1.20	0.229	-.033415 .1398389
3		.0228115	.0484106	0.47	0.637	-.0720726 .1176957

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1232447	.0073134	16.85	0.000	.1089107	.1375788
c.timew1w3#c.w1WRATtotalcent42		-.0018105	.0015497	-1.17	0.243	-.0048481	.0012271
	timew1w3	0	(omitted)				
1.w1smoke		-.0424079	.1271052	-0.33	0.740	-.2962568	.2114411
w1smoke#c.timew1w3							
1		.0009563	.0278489	0.03	0.973	-.0544677	.0563803
	timew1w3	0	(omitted)				
1.w1currdrugs		.1169245	.143912	0.81	0.417	-.1668297	.4006788
w1currdrugs#c.timew1w3							
1		.0240075	.0302052	0.79	0.427	-.0352855	.0833005
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0014991	.0052558	-0.29	0.777	-.0120824	.0090842
c.timew1w3#c.w1hei2010_total_scorecent43		.0012609	.0012008	1.05	0.298	-.0011391	.0036608
	timew1w3	0	(omitted)				
w1BMIcon30		-.0053088	.0071572	-0.74	0.458	-.0193448	.0087271
c.timew1w3#c.w1BMIcon30		-.0025104	.0014904	-1.68	0.092	-.0054321	.0004113
	timew1w3	0	(omitted)				
invmillsmms		.0051555	.003295	1.56	0.118	-.0013027	.0116136
c.timew1w3#c.invmillsmms		-.0004012	.0006375	-0.63	0.529	-.0016506	.0008482
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0446133	.0526881	-0.85	0.397	-.1478801	.0586536
c.timew1w3#c.zw1w3HCYTRAJ		-.0011715	.0107915	-0.11	0.914	-.0223226	.0199795
w1Folatecenter14p3		.0074368	.0080409	0.92	0.355	-.0083374	.0232111
c.timew1w3#c.w1Folatecenter14p3		-.0011962	.0016601	-0.72	0.471	-.0044503	.0020579
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0016252	.0065346	-0.25	0.804	-.014433	.0111825
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0020791	.0013335	-1.56	0.119	-.0046928	.0005345
_cons		5.977313	.2297581	26.02	0.000	5.526816	6.42781

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	6.46e-07
sd(_cons)	1.346826	.039092	1.272345	1.425666	
sd(Residual)	1.236439	.0247399	1.188888	1.285892	

76 .

```
77 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4iobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,736

Group variable: HNDID

Number of groups = 1,414
Obs per group:

min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0316
Largest FMI = 0.1755

DF adjustment: Large sample

DF: min = 148.01
avg = 6.41e+07
max = 2.21e+09

Model F test: Equal FMI

F(31, 99230.1) = 7.37
Prob > F = 0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0660474	.0364894	-1.81	0.070	-.1375758 .0054811
w1Agecent48		-.0032921	.0034937	-0.94	0.346	-.0101397 .0035555
c.timew1w3##c.w1Agecent48		-.0023158	.0009107	-2.54	0.011	-.0041008 -.0005308
timew1w3		0	(omitted)			
Sex						
Men		.083256	.0651562	1.28	0.201	-.0444479 .21096
Sex#c.timew1w3						
Men		.0143127	.0170411	0.84	0.401	-.0190872 .0477127
timew1w3		0	(omitted)			
Race						
AfrAm		-.3029309	.0658695	-4.60	0.000	-.4320328 -.173829
Race#c.timew1w3						
AfrAm		.0164599	.0173034	0.95	0.341	-.0174543 .050374
timew1w3		0	(omitted)			
PovStat						
Below		.0503829	.0681319	0.74	0.460	-.083154 .1839197
PovStat#c.timew1w3						
Below		-.0035187	.0174317	-0.20	0.840	-.0376842 .0306468
timew1w3		0	(omitted)			
w1edubr						
2		-.0060297	.1376688	-0.04	0.965	-.2759561 .2638967
3		.186804	.1490454	1.25	0.210	-.1053848 .4789928
w1edubr#c.timew1w3						
2		.0422829	.0345884	1.22	0.222	-.0255196 .1100853
3		.0547455	.0378436	1.45	0.148	-.0194377 .1289286

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.0291247	.0045935	6.34	0.000	.0201209	.0381286
c.timew1w3#c.w1WRATtotalcent42		-.0012397	.0011956	-1.04	0.300	-.0035838	.0011043
	timew1w3	0	(omitted)				
1.w1smoke		-.016724	.0751599	-0.22	0.824	-.1645792	.1311313
w1smoke#c.timew1w3							
1		.0086342	.0198961	0.43	0.665	-.030499	.0477674
	timew1w3	0	(omitted)				
1.w1currdrugs		.2878785	.0933906	3.08	0.002	.1033274	.4724296
w1currdrugs#c.timew1w3							
1		-.056417	.0226287	-2.49	0.013	-.1007865	-.0120476
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0015662	.0030549	0.51	0.608	-.0044401	.0075725
c.timew1w3#c.w1hei2010_total_scorecent43		.0005226	.0008476	0.62	0.538	-.0011471	.0021922
	timew1w3	0	(omitted)				
w1BMIcon30		-.0028896	.0043955	-0.66	0.511	-.0115047	.0057256
c.timew1w3#c.w1BMIcon30		.0000746	.0011383	0.07	0.948	-.0021565	.0023057
	timew1w3	0	(omitted)				
invmillsmms		.0003755	.0020786	0.18	0.857	-.0036984	.0044494
c.timew1w3#c.invmillsmms		-.0002257	.0004971	-0.45	0.650	-.0012	.0007485
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0134654	.0330432	-0.41	0.684	-.078229	.0512983
c.timew1w3#c.zw1w3HCYTRAJ		-.0150483	.0083552	-1.80	0.072	-.0314241	.0013275
	w1Folatecenter14p3						
		.0078779	.0049905	1.58	0.115	-.0019068	.0176627
c.timew1w3#c.w1Folatecenter14p3		-.000317	.001284	-0.25	0.805	-.0028336	.0021996
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
		.0081497	.0040792	2.00	0.046	.0001546	.0161448
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0027154	.0010294	-2.64	0.008	-.004733	-.0006978
	_cons	8.80444	.1434502	61.38	0.000	8.523207	9.085673

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.037546	.0378714	.0051998	.2711098	
sd(_cons)	.6230023	.0307067	.5656339	.6861893	
sd(Residual)	.9642284	.0246411	.9171221	1.013754	

78 .

```
79 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4jobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,670

Group variable: HNDID

Number of groups = 1,397
Obs per group:

- min = 1
- avg = 1.9
- max = 2

Average RVI = 0.0319
Largest FMI = 0.3018

DF adjustment: Large sample

DF: min = 52.61
avg = 1.37e+07
max = 4.15e+08

Model F test: Equal FMI

F(31, 96551.2) = 15.20
Prob > F = 0.0000

	LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0129951	.009706	1.34	0.181	-.0060318	.032022
w1Agecent48	.0112503	.0010785	10.43	0.000	.0091365	.0133641
c.timew1w3#c.w1Agecent48	.000575	.0002409	2.39	0.017	.0001029	.0010471
timew1w3	0 (omitted)					
Sex						
Men	.0928195	.0201189	4.61	0.000	.0533873	.1322518
Sex#c.timew1w3						
Men	.0003953	.0045081	0.09	0.930	-.0084405	.009231
timew1w3	0 (omitted)					
Race						
AfrAm	.1522129	.0202785	7.51	0.000	.1124676	.1919582
Race#c.timew1w3						
AfrAm	-.0014117	.0045451	-0.31	0.756	-.0103199	.0074965
timew1w3	0 (omitted)					
PovStat						
Below	.0607632	.020957	2.90	0.004	.0196882	.1018382
PovStat#c.timew1w3						
Below	.0013157	.0045905	0.29	0.774	-.0076814	.0103128
timew1w3	0 (omitted)					
w1edubr						
2	-.0637843	.0427604	-1.49	0.136	-.1476381	.0200695
3	-.0504584	.0464192	-1.09	0.277	-.1414973	.0405804
w1edubr#c.timew1w3						
2	-.0077167	.0092096	-0.84	0.402	-.0257725	.010339
3	-.0125405	.0100763	-1.24	0.213	-.032297	.0072159

	timew1w3	0	(omitted)					
w1WRATtotalcent42		- .0080411	.0014288	-5.63	0.000	- .0108414	- .0052407	
c.timew1w3#c.w1WRATtotalcent42		- .0004829	.0003166	-1.53	0.127	- .0011034	.0001377	
	timew1w3	0	(omitted)					
1.w1smoke		.0020955	.023351	0.09	0.929	- .0440275	.0482184	
w1smoke#c.timew1w3								
1		.0029482	.0051142	0.58	0.564	- .0070812	.0129775	
	timew1w3	0	(omitted)					
1.w1currdrugs		.052497	.0272959	1.92	0.055	- .0012027	.1061967	
w1currdrugs#c.timew1w3								
1		- .0042338	.006067	-0.70	0.485	- .0161369	.0076692	
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0001234	.0010063	0.12	0.903	- .0018953	.0021422	
c.timew1w3#c.w1hei2010_total_scorecent43		.0001034	.0002331	0.44	0.658	- .0003579	.0005647	
	timew1w3	0	(omitted)					
w1BMIcon30		.002328	.0013505	1.72	0.085	- .0003191	.0049751	
c.timew1w3#c.w1BMIcon30		- .0002576	.0002981	-0.86	0.387	- .0008418	.0003266	
	timew1w3	0	(omitted)					
invmillsmms		.0003937	.0006275	0.63	0.530	- .0008363	.0016236	
c.timew1w3#c.invmillsmms		- .0001349	.0001285	-1.05	0.293	- .0003867	.0001168	
	timew1w3	0	(omitted)					
zw1w3HCYTRAJ		.0267044	.0104529	2.55	0.011	.006217	.0471918	
c.timew1w3#c.zw1w3HCYTRAJ		- .0008253	.0022592	-0.37	0.715	- .0052533	.0036028	
	w1Folatecenter14p3							
		- .0015314	.0015316	-1.00	0.317	- .0045334	.0014706	
c.timew1w3#c.w1Folatecenter14p3		.0001465	.0003467	0.42	0.673	- .0005334	.0008264	
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3							
		- .0006801	.0014313	-0.48	0.635	- .0034855	.0021252	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0001	.000311	0.32	0.748	- .0005095	.0007095	
	_cons	3.354846	.044623	75.18	0.000	3.267347	3.442344	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.022799	.0059108	.0137162
sd(_cons)	.2544751	.0077958	.2396453
sd(Residual)	.2373043	.0076494	.2227755
			.2527806

```

80 .
81 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs     =    2,578

Group variable: HNDID                Number of groups  =    1,383
                                         Obs per group:
                                         min =          1
                                         avg =         1.9
                                         max =          2
                                         Average RVI   =    0.0522
                                         Largest FMI   =    0.2630
                                         DF: min       =    68.42
                                         avg          =  7.65e+14
                                         max          =  2.68e+16
DF adjustment: Large sample
Model F test: Equal FMI             F(  31, 37703.0) =    24.21
                                         Prob > F        =    0.0000

```

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0119475	.014579	0.82	0.413	-.0166318	.0405267
w1Agecent48	.0161899	.0017261	9.38	0.000	.0128067	.0195731
c.timew1w3#c.w1Agecent48	.0005545	.0003577	1.55	0.121	-.0001466	.0012555
timew1w3	0 (omitted)					
Sex						
Men	.0543015	.0321376	1.69	0.091	-.0086871	.1172902
Sex#c.timew1w3						
Men	-.0053521	.0066714	-0.80	0.422	-.0184277	.0077236
timew1w3	0 (omitted)					
Race						
AfrAm	.3055185	.0324817	9.41	0.000	.2418547	.3691824
Race#c.timew1w3						
AfrAm	.0004462	.0067917	0.07	0.948	-.0128653	.0137576
timew1w3	0 (omitted)					
PovStat						
Below	.1301919	.0335928	3.88	0.000	.0643503	.1960334
PovStat#c.timew1w3						
Below	.0003836	.0068743	0.06	0.956	-.0130898	.013857
timew1w3	0 (omitted)					
w1edubr						
2	-.1062825	.0674806	-1.58	0.115	-.2385527	.0259877
3	-.20886	.0725744	-2.88	0.004	-.3511042	-.0666158
w1edubr#c.timew1w3						
2	-.008131	.0138024	-0.59	0.556	-.0351844	.0189225
3	-.0082349	.0149843	-0.55	0.583	-.0376052	.0211355

	timew1w3	0	(omitted)					
w1WRATtotalcent42		-.0263437	.002308	-11.41	0.000	-.0308676	-.0218198	
c.timew1w3#c.w1WRATtotalcent42		-.0002564	.000493	-0.52	0.603	-.0012227	.0007098	
	timew1w3	0	(omitted)					
1.w1smoke		.0090048	.0379361	0.24	0.813	-.066305	.0843147	
w1smoke#c.timew1w3								
1		.0084223	.0079774	1.06	0.292	-.0072825	.0241272	
	timew1w3	0	(omitted)					
1.w1currdrugs		-.0102804	.0455182	-0.23	0.822	-.1006177	.080057	
w1currdrugs#c.timew1w3								
1		-.0024224	.0093527	-0.26	0.796	-.0208374	.0159927	
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0004438	.0015366	0.29	0.774	-.0026188	.0035065	
c.timew1w3#c.w1hei2010_total_scorecent43		-.0001487	.000366	-0.41	0.686	-.000879	.0005815	
	timew1w3	0	(omitted)					
w1BMIcon30		.0020964	.0021774	0.96	0.336	-.0021725	.0063652	
c.timew1w3#c.w1BMIcon30		-.0005985	.0004464	-1.34	0.180	-.0014734	.0002765	
	timew1w3	0	(omitted)					
invmillsmms		-.0024009	.0010039	-2.39	0.017	-.0043686	-.0004332	
c.timew1w3#c.invmillsmms		-.0003122	.0004804	-0.65	0.516	-.0012538	.0006294	
	timew1w3	0	(omitted)					
zw1w3HCYTRAJ		.0254669	.0166842	1.53	0.127	-.0072335	.0581673	
c.timew1w3#c.zw1w3HCYTRAJ		.0068315	.0033377	2.05	0.041	.0002897	.0133734	
	w1Folatecenter14p3							
		.0021158	.0025543	0.83	0.408	-.0029045	.0071362	
c.timew1w3#c.w1Folatecenter14p3		.0001258	.0005078	0.25	0.804	-.0008696	.0011211	
	c.zw1w3HCYTRAJ#c.w1Folatecenter14p3							
		.0021828	.0022938	0.95	0.341	-.0023145	.00668	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0000303	.0004629	0.07	0.948	-.000877	.0009376	
	_cons	4.488884	.0704847	63.69	0.000	4.350726	4.627042	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	6.93e-08	.0000483	0 .
sd(_cons)	.4235432	.0125123	.3997159 .4487908
sd(Residual)	.3603353	.0076852	.345583 .3757174

```

82 .
83 .
84 . save, replace
      file finaldata_imputed_FINAL.dta saved

85 .
86 .
87 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
88 .
89 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,621

Group variable: HNDID

Number of groups	=	1,398
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	.
Largest FMI	=	.

DF adjustment: Large sample

DF:	min	=	0.00
	avg	=	.
	max	=	.

Model F test: Equal FMI

F(47,93935.4)	=	23.11
Prob > F	=	0.0000	

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0959374	.0572747	1.68	0.094	-.0163486 .2082234
w1Agecent48	-.0212999	.0052971	-4.02	0.000	-.0316835 -.0109162
c.timew1w3##c.w1Agecent48	-.0029521	.0012971	-2.28	0.023	-.0054946 -.0004096
timew1w3	0 (omitted)				
Sex					
Men	-.3655762	.0920964	-3.97	0.000	-.5460871 -.1850653
Sex#c.timew1w3					
Men	.0220128	.0227086	0.97	0.332	-.0225029 .0665285
timew1w3	0 (omitted)				
Race					
AfrAm	-.2436645	.0937751	-2.60	0.009	-.4274961 -.0598328
Race#c.timew1w3					
AfrAm	-.0169554	.0233363	-0.73	0.468	-.0626972 .0287863
timew1w3	0 (omitted)				
PovStat					
Below	-.0114873	.0947613	-0.12	0.904	-.197218 .1742434
PovStat#c.timew1w3					
Below	-.0332048	.0228959	-1.45	0.147	-.0780799 .0116704

		timew1w3	0 (omitted)				
	w1edubr						
	2	.5176307	.1855344	2.79	0.005	.1539667	.8812947
	3	.6766112	.2028628	3.34	0.001	.2789534	1.074269
	w1edubr#c.timew1w3						
	2	-.0627783	.0469455	-1.34	0.181	-.154811	.0292544
	3	-.0587479	.050766	-1.16	0.247	-.1582801	.0407843
	timew1w3	0 (omitted)					
	w1WRATtotalcent42	.1435973	.0064104	22.40	0.000	.1310313	.1561632
c.timew1w3#c.w1WRATtotalcent42		-.0068877	.0017408	-3.96	0.000	-.0103003	-.003475
	timew1w3	0 (omitted)					
	1.w1smoke	.036199	.1042625	0.35	0.729	-.1692244	.2416225
	w1smoke#c.timew1w3						
	1	-.0528283	.0250878	-2.11	0.035	-.1020039	-.0036527
	timew1w3	0 (omitted)					
	1.w1currdrugs	-.0342706	.1334342	-0.26	0.798	-.3001154	.2315742
	w1currdrugs#c.timew1w3						
	1	.0140042	.0312128	0.45	0.654	-.0474837	.0754922
	timew1w3	0 (omitted)					
	w1hei2010_total_scorecent43	-.004967	.0046355	-1.07	0.289	-.0142759	.0043419
c.timew1w3#c.w1hei2010_total_scorecent43		.0005388	.001237	0.44	0.665	-.0019506	.0030281
	timew1w3	0 (omitted)					
	w1BMIcon30	-.0050194	.006589	-0.76	0.446	-.0179375	.0078988
c.timew1w3#c.w1BMIcon30		.0000616	.0015788	0.04	0.969	-.0030328	.003156
	timew1w3	0 (omitted)					
	w1SRH						
	2	.1602477	.1212391	1.32	0.186	-.0773766	.397872
	3	.0795372	.1303604	0.61	0.542	-.1759651	.3350395
	w1SRH#c.timew1w3						
	2	-.0057267	.0302217	-0.19	0.850	-.0649603	.0535069
	3	-.0085761	.0324674	-0.26	0.792	-.0722123	.0550602
	timew1w3	0 (omitted)					
	w1CEScent15	-.0082999	.0042643	-1.95	0.052	-.016658	.0000582
c.timew1w3#c.w1CEScent15		.0006518	.0010653	0.61	0.541	-.0014365	.0027402
	timew1w3	0 (omitted)					
	w1dxHTN						
	Yes	.0250567	.1004836	0.25	0.803	-.1718916	.222005
	w1dxHTN#c.timew1w3						
	Yes	-.0075245	.0253118	-0.30	0.766	-.0571453	.0420963
	timew1w3	0 (omitted)					
	w1dxDiabetes						

	preDiabetes	-.0038207	.1174842	-0.03	0.974	-.2341363	.226495
	Diabetes	-.0515435	.1480502	-0.35	0.728	-.3440798	.2409927
w1dxDiabetes#c.timew1w3							
	preDiabetes	.0291406	.0290369	1.00	0.316	-.0277718	.0860529
	Diabetes	-.0528991	.0359443	-1.47	0.141	-.1234372	.0176391
	timew1w3		0	(omitted)			
w1CVhighChol							
	Yes	.1841929	.109937	1.68	0.094	-.0315244	.3999103
w1CVhighChol#c.timew1w3							
	Yes	.0081496	.0279908	0.29	0.771	-.0467424	.0630417
	timew1w3		0	(omitted)			
1.w1cvdbr		-.0304364	.1317328	-0.23	0.818	-.2907	.2298272
w1cvdbr#c.timew1w3							
	1	-.001261	.0322768	-0.04	0.969	-.0647269	.0622049
	timew1w3		0	(omitted)			
	invmillsmms	.0078856	.0027788	2.84	0.005	.0024392	.013332
c.timew1w3#c.invmillsmms		-.0018856	.0006122	-3.08	0.002	-.0030854	-.0006858
	timew1w3		0	(omitted)			
zw1w3HCYTRAJ		-.0261441	.0458639	-0.57	0.569	-.1160358	.0637477
c.timew1w3#c.zw1w3HCYTRAJ		.0079689	.0117029	0.68	0.496	-.0149685	.0309063
w1Folatecenter14p3		.0049088	.0068433	0.72	0.473	-.0085075	.0183251
c.timew1w3#c.w1Folatecenter14p3		-.0003143	.0017739	-0.18	0.859	-.0037913	.0031626
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0109629	.0057317	-1.91	0.056	-.022204	.0002783
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0014855	.0016123	0.92	0.357	-.0016748	.0046458
	_cons	27.29936	.2239228	121.91	0.000	26.86046	27.73826

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	5.67e-07
sd(_cons)	.992398	.042963	.9116489	1.080299	
sd(Residual)	1.211434	.0265492	1.160498	1.264605	

```

90 .
91 .
92 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,621
Number of groups = 1,398
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0410
Largest FMI = 0.3601
DF: min = 37.46
      avg = 2.12e+09
      max = 1.08e+11
F( 47, 101096.8) = 20.60
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5054692	.4633228	1.09	0.275	.4027775	1.413716
w1Agecent48	-.187441	.041278	-4.54	0.000	-.2683462	-.1065357
c.timew1w3#c.w1Agecent48	-.0220585	.0104984	-2.10	0.036	-.0426357	-.0014812
timew1w3	0 (omitted)					
Sex						
Men	-2.247329	.7223281	-3.11	0.002	-3.663106	-.8315529
Sex#c.timew1w3						
Men	.1373804	.1848444	0.74	0.457	-.2249856	.4997465
timew1w3	0 (omitted)					
Race						
AfrAm	-3.453776	.7310188	-4.72	0.000	-4.886622	-2.02093
Race#c.timew1w3						
AfrAm	.0245369	.1892426	0.13	0.897	-.3463886	.3954624
timew1w3	0 (omitted)					
PovStat						
Below	-.2777718	.7432617	-0.37	0.709	-1.734552	1.179009
PovStat#c.timew1w3						
Below	-.2885137	.1860599	-1.55	0.121	-.6531847	.0761573
timew1w3	0 (omitted)					
w1edubr						
2	3.857492	1.455471	2.65	0.008	1.00466	6.710324
3	5.754328	1.589457	3.62	0.000	2.638757	8.869899
w1edubr#c.timew1w3						

	2	-.5053671	.3796223	-1.33	0.183	-1.249513	.2387787
	3	-.3583681	.4104071	-0.87	0.383	-1.162903	.4461669
	timew1w3	0	(omitted)				
w1WRATtotalcent42		.934625	.0502196	18.61	0.000	.8361868	1.033063
c.timew1w3#c.w1WRATtotalcent42		-.0308254	.014095	-2.19	0.029	-.0584559	-.0031949
	timew1w3	0	(omitted)				
1.w1smoke		-.2563503	.8027188	-0.32	0.750	-1.833589	1.320888
w1smoke#c.timew1w3							
1		-.3077756	.2020757	-1.52	0.128	-.703838	.0882869
	timew1w3	0	(omitted)				
1.w1currdrugs		.3074131	1.031723	0.30	0.766	-1.740274	2.3551
w1currdrugs#c.timew1w3							
1		.0468284	.2579995	0.18	0.856	-.4628499	.5565066
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0337426	.0349254	-0.97	0.337	-.1031181	.0356328
c.timew1w3#c.w1hei2010_total_scorecent43		.007757	.0102718	0.76	0.455	-.013047	.028561
	timew1w3	0	(omitted)				
w1BMIcon30		-.0419389	.0513842	-0.82	0.414	-.1426622	.0587844
c.timew1w3#c.w1BMIcon30		-.0016536	.0128168	-0.13	0.897	-.026774	.0234668
	timew1w3	0	(omitted)				
w1SRH							
2		1.251686	.9516901	1.32	0.188	-.6135954	3.116967
3		1.448606	1.027057	1.41	0.158	-.5644691	3.461681
w1SRH#c.timew1w3							
2		-.0976755	.245371	-0.40	0.691	-.578594	.3832429
3		-.1702627	.2638582	-0.65	0.519	-.6874281	.3469028
	timew1w3	0	(omitted)				
w1CEScent15		-.0631451	.033394	-1.89	0.059	-.1285972	.0023069
c.timew1w3#c.w1CEScent15		.0055156	.0086335	0.64	0.523	-.0114072	.0224383
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.3965269	.7924578	0.50	0.617	-1.15678	1.949834
w1dxHTN#c.timew1w3							
Yes		-.0719239	.2049038	-0.35	0.726	-.4735731	.3297252
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.5893521	.9267185	0.64	0.525	-1.227689	2.406393
Diabetes		.1027081	1.140824	0.09	0.928	-2.144761	2.350178
w1dxDiabetes#c.timew1w3							
preDiabetes		.2218406	.2355449	0.94	0.346	-.2398226	.6835037
Diabetes		-.4180342	.2908009	-1.44	0.151	-.9885531	.1524848

		timew1w3	0 (omitted)				
w1CVhighChol	Yes	1.220638	.8723309	1.40	0.162	-.4920211	2.933296
w1CVhighChol#c.timew1w3	Yes	.1091738	.2334722	0.47	0.640	-.3496727	.5680203
timew1w3 1.w1cvdbr		0 (omitted) -.5355306	1.046845	-0.51	0.610	-2.606973	1.535912
w1cvdbr#c.timew1w3 1		-.0174294	.2652927	-0.07	0.948	-.5398973	.5050385
timew1w3 invmillsmms		0 (omitted) .0436311	.0217972	2.00	0.045	.0009094	.0863527
c.timew1w3#c.invmillsmms		-.0100232	.0049854	-2.01	0.044	-.0197943	-.0002521
timew1w3 zw1w3HCYTRAJ		0 (omitted) -.0085448	.3593752	-0.02	0.981	-.7129076	.695818
c.timew1w3#c.zw1w3HCYTRAJ		.0284944	.0950305	0.30	0.764	-.1577632	.214752
w1Folatecenter14p3		.0672006	.0535458	1.26	0.210	-.0377644	.1721657
c.timew1w3#c.w1Folatecenter14p3		-.0119344	.0145053	-0.82	0.411	-.0403706	.0165017
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.071439	.0440847	-1.62	0.105	-.1578451	.014967
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0100816	.0129939	0.78	0.438	-.0153864	.0355496
_cons		73.56599	1.771492	41.53	0.000	70.09306	77.03891

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0002511	.0242274	1.94e-86	3.26e+78
sd(_cons)	7.318293	.3190407	6.718931	7.97112
sd(Residual)	9.870501	.2023988	9.481665	10.27528

93 .
 94 .
 95 .
 96 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
 > if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
Number of obs = 2,435

Group variable: HNDID Number of groups = 1,391
 Obs per group:
 min = 1
 avg = 1.8
 max = 2
 Average RVI = 0.0406
 Largest FMI = 0.3830
 DF adjustment: Large sample DF: min = 33.23
 avg = 96,259.60
 max = 738,927.62
 Model F test: Equal FMI F(47,103673.5) = 35.88
 Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.091822	.179132	-6.10	0.000	-1.442917 - .7407266
w1Agecent48		-.1480654	.0203028	-7.29	0.000	-.1878605 - .1082703
c.timew1w3#c.w1Agecent48		-.0099936	.004413	-2.26	0.024	-.0186431 - .0013442
timew1w3		0	(omitted)			
Sex						
Men		-2.268232	.3538194	-6.41	0.000	-2.961708 -1.574756
Sex#c.timew1w3						
Men		-.2327054	.0769621	-3.02	0.002	-.3835518 -.0818589
timew1w3		0	(omitted)			
Race						
AfrAm		-2.327091	.3639877	-6.39	0.000	-3.040731 -1.61345
Race#c.timew1w3						
AfrAm		.1174019	.0792341	1.48	0.139	-.0379447 .2727485
timew1w3		0	(omitted)			
PovStat						
Below		-.0987094	.3633422	-0.27	0.786	-.810865 .6134461
PovStat#c.timew1w3						
Below		-.0339367	.0768414	-0.44	0.659	-.1845482 .1166748
timew1w3		0	(omitted)			
w1edubr						
2		-.5999758	.7029707	-0.85	0.394	-1.97899 .7790388
3		1.612553	.7641145	2.11	0.035	.114125 3.110981
w1edubr#c.timew1w3						
2		.122973	.1455822	0.84	0.398	-.1624415 .4083876
3		-.0486022	.1597958	-0.30	0.761	-.3618338 .2646294
timew1w3		0	(omitted)			
w1WRATtotalcent42		.2240231	.0242412	9.24	0.000	.1765095 .2715367
c.timew1w3#c.w1WRATtotalcent42		-.0067751	.0051658	-1.31	0.190	-.0169001 .00335
timew1w3		0	(omitted)			
1.w1smoke		.0541859	.3884371	0.14	0.889	-.7110423 .819414

w1smoke#c.timew1w3							
	1						
timew1w3							
1.w1currdrugs							
w1currdrugs#c.timew1w3							
	1						
timew1w3							
w1hei2010_total_scorecent43							
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3							
w1BMIcon30							
c.timew1w3#c.w1BMIcon30							
timew1w3							
w1SRH							
	2						
	3						
w1SRH#c.timew1w3							
	2						
	3						
timew1w3							
w1CEScent15							
c.timew1w3#c.w1CEScent15							
timew1w3							
w1dxHTN							
Yes							
w1dxHTN#c.timew1w3							
Yes							
timew1w3							
w1dxDiabetes							
preDiabetes							
Diabetes							
w1dxDiabetes#c.timew1w3							
preDiabetes							
Diabetes							
timew1w3							
w1CVhighChol							
Yes							
w1CVhighChol#c.timew1w3							
Yes							
timew1w3							
1.w1cvdbr							

w1cvdbr#c.timew1w3	1	-.1627417	.106827	-1.52	0.128	-.3725663	.0470829
timew1w3	invmillsmms	0 (omitted)					
c.timew1w3#c.invmillsmms		.0191331	.0101966	1.88	0.061	-.0008518	.0391118
timew1w3	zw1w3HCYTRAJ	-.0005692	.0019942	-0.29	0.775	-.0044778	.0033394
zw1w3HCYTRAJ	c.timew1w3#c.zw1w3HCYTRAJ	.3755664	.1767806	2.12	0.034	.029082	.7220508
w1Folatecenter14p3		-.0394505	.0377412	-1.05	0.296	-.1134257	.0345248
c.timew1w3#c.w1Folatecenter14p3		-.05204	.0261376	-1.99	0.047	-.1033522	-.0007277
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0116569	.0054976	2.12	0.034	.0008795	.0224343
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0297318	.0209265	-1.42	0.155	-.0707475	.011284
_cons		-.003732	.0045255	-0.82	0.410	-.0126018	.0051378
		26.02747	.8425571	30.89	0.000	24.3759	27.67904

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3568924	.0988865	.2073354	.6143294
sd(_cons)	4.276106	.1289236	4.030741	4.536408
sd(Residual)	3.63575	.1300507	3.389577	3.899801

```

97 .
98 .
99 .
100 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression
Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,313
Number of groups = 1,365
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0588
Largest FMI = 0.3485
DF: min = 39.90
        avg = 209,520.69
        max = 4508969.64
F( 47,50450.9) = 22.16
Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.4011886	.0875305	-4.58	0.000	-.5727467 -.2296305
	w1Agecent48	-.0803377	.0098122	-8.19	0.000	-.0995697 -.0611056
c.timew1w3#c.w1Agecent48		-.004726	.0021787	-2.17	0.030	-.0089963 -.0004556
	timew1w3	0 (omitted)				
	Sex					
	Men	-.9849669	.1710775	-5.76	0.000	-1.320277 -.6496572
	Sex#c.timew1w3					
	Men	-.0607407	.0375962	-1.62	0.106	-.1344296 .0129483
	timew1w3	0 (omitted)				
	Race					
	AfrAm	-1.330029	.1750659	-7.60	0.000	-1.673244 -.9868147
	Race#c.timew1w3					
	AfrAm	.0254396	.0385609	0.66	0.509	-.050148 .1010272
	timew1w3	0 (omitted)				
	PovStat					
	Below	.0101449	.175639	0.06	0.954	-.3341125 .3544023
	PovStat#c.timew1w3					
	Below	-.0270795	.0376406	-0.72	0.472	-.100857 .0466981
	timew1w3	0 (omitted)				
	w1edubr					
	2	-.1632739	.339835	-0.48	0.631	-.8297411 .5031932
	3	.5060565	.3690987	1.37	0.170	-.2175837 1.229697
	w1edubr#c.timew1w3					
	2	-.0069825	.0703732	-0.10	0.921	-.1449317 .1309667
	3	-.0016529	.0774873	-0.02	0.983	-.1535359 .15023
	timew1w3	0 (omitted)				
	w1WRATtotalcent42	.0946018	.011813	8.01	0.000	.0714456 .1177581
c.timew1w3#c.w1WRATtotalcent42		-.0044948	.0025185	-1.78	0.074	-.0094309 .0004414
	timew1w3	0 (omitted)				
	1.w1smoke	.0332419	.2024327	0.16	0.870	-.3703462 .43683
	w1smoke#c.timew1w3					
	1	-.0107969	.0465137	-0.23	0.817	-.1035393 .0819456
	timew1w3	0 (omitted)				
	1.w1currdrugs	-.1335992	.2303003	-0.58	0.563	-.5878048 .3206064
	w1currdrugs#c.timew1w3					
	1	-.0197341	.0522036	-0.38	0.706	-.1230554 .0835872
	timew1w3	0 (omitted)				
	w1hei2010_total_scorecent43	.0080024	.0088404	0.91	0.371	-.0098661 .0258709
c.timew1w3#c.w1hei2010_total_scorecent43		-.0007118	.0019826	-0.36	0.720	-.004647 .0032234

	timew1w3	0	(omitted)				
w1BMIcent30		.0264431	.0120795	2.19	0.029	.0027647	.0501215
c.timew1w3#c.w1BMIcent30		-.0023197	.0025994	-0.89	0.372	-.0074144	.002775
	timew1w3	0	(omitted)				
w1SRH							
2		.2456489	.2233953	1.10	0.272	-.1922066	.6835044
3		.0523769	.2419307	0.22	0.829	-.4218504	.5266042
w1SRH#c.timew1w3							
2		.0149095	.0491432	0.30	0.762	-.0814096	.1112286
3		.0558261	.0528022	1.06	0.290	-.0476646	.1593167
	timew1w3	0	(omitted)				
w1CEScent15		-.0307218	.0077915	-3.94	0.000	-.0459929	-.0154507
c.timew1w3#c.w1CEScent15		-.0001141	.0017329	-0.07	0.948	-.0035114	.0032832
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0115936	.1852165	0.06	0.950	-.3514946	.3746818
w1dxHTN#c.timew1w3							
Yes		.0235594	.0412048	0.57	0.567	-.0572018	.1043206
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.2281554	.2164122	-1.05	0.292	-.6525729	.196262
Diabetes		-.2022623	.2660684	-0.76	0.448	-.725786	.3212613
w1dxDiabetes#c.timew1w3							
preDiabetes		.0659886	.0479383	1.38	0.169	-.0279853	.1599625
Diabetes		-.0177945	.0584109	-0.30	0.761	-.1324154	.0968264
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.069289	.2089643	-0.33	0.740	-.4805325	.3419544
w1CVhighChol#c.timew1w3							
Yes		.0614906	.0479912	1.28	0.201	-.0328394	.1558206
	timew1w3	0	(omitted)				
1.w1cvdbr		.275948	.2312724	1.19	0.233	-.1783901	.730286
w1cvdbr#c.timew1w3							
1		-.0499542	.0517549	-0.97	0.335	-.1514688	.0515604
	timew1w3	0	(omitted)				
invmillsmms		.0083152	.0048718	1.71	0.088	-.0012334	.0178638
c.timew1w3#c.invmillsmms		-.0004807	.0009458	-0.51	0.611	-.0023344	.0013729
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.3000135	.0868102	3.46	0.001	.1298687	.4701584
c.timew1w3#c.zw1w3HCYTRAJ		-.0325547	.0185514	-1.75	0.079	-.0689152	.0038057

w1Folatecenter14p3	- .0042189	.0126767	-0.33	0.739	- .0291122	.0206744
c.timew1w3#c.w1Folatecenter14p3	.0013668	.0026452	0.52	0.605	- .0038181	.0065517
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	- .0111944	.0107535	-1.04	0.298	- .032274	.0098853
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0002261	.0022326	0.10	0.919	- .0041498	.004602
_cons	8.330657	.4115599	20.24	0.000	7.523791	9.137522

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0760662	.1036578	.0052628	1.099421
sd(_cons)	1.969136	.0634258	1.848665	2.097457
sd(Residual)	1.800014	.0610197	1.684304	1.923674

```

101 .
102 .
103 .
104 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI
```

	Imputations = 5
Number of obs	= 2,720
Number of groups	= 1,412
Obs per group:	
min	= 1
avg	= 1.9
max	= 2
Average RVI	= 0.0415
Largest FMI	= 0.3185
DF:	min = 47.43
	avg = 694,155.51
	max = 2.12e+07
F(47,97992.6)	= 20.23
Prob > F	= 0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5256685	.1283268	4.10	0.000	.2741258
w1Agecent48	.111076	.0142031	7.82	0.000	.0832376
c.timew1w3#c.w1Agecent48	.0109029	.0030352	3.59	0.000	.004954
timew1w3		0 (omitted)			
Sex					
Men	-.920545	.2499626	-3.68	0.000	-1.410511
Sex#c.timew1w3					
Men	.0504801	.0529118	0.95	0.340	-.0532298
timew1w3		0 (omitted)			

Race						
AfrAm	.614641	.2517051	2.44	0.015	.1212744	1.108008
Race#c.timew1w3						
AfrAm	.1572387	.0538339	2.92	0.003	.0517248	.2627527
timew1w3	0 (omitted)					
PovStat						
Below	.1131603	.2565262	0.44	0.659	-.3896225	.6159432
PovStat#c.timew1w3						
Below	.0282669	.0535316	0.53	0.597	-.0766533	.1331872
timew1w3	0 (omitted)					
w1edubr						
2	-.6079733	.5011933	-1.21	0.225	-1.590436	.374489
3	-1.409415	.5512563	-2.56	0.011	-2.490283	-.3285466
w1edubr#c.timew1w3						
2	-.1687428	.1032672	-1.63	0.102	-.3711478	.0336623
3	-.1400446	.1131836	-1.24	0.216	-.3618818	.0817926
timew1w3	0 (omitted)					
w1WRATtotalcent42						
c.timew1w3#c.w1WRATtotalcent42	-.1486157	.0174285	-8.53	0.000	-.1827923	-.1144392
	-.0041951	.0036172	-1.16	0.246	-.0112847	.0028945
timew1w3	0 (omitted)					
1.w1smoke						
	.2931979	.2764069	1.06	0.290	-.250953	.8373488
w1smoke#c.timew1w3						
1	-.0543807	.0588775	-0.92	0.356	-.1697983	.0610369
timew1w3	0 (omitted)					
1.w1currdrugs						
	-.4277919	.3723162	-1.15	0.256	-1.176616	.3210317
w1currdrugs#c.timew1w3						
1	.1166653	.0726343	1.61	0.109	-.0262033	.2595339
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43						
	-.0028868	.0118416	-0.24	0.808	-.0265058	.0207323
c.timew1w3#c.w1hei2010_total_scorecent43						
	-.0036746	.002689	-1.37	0.174	-.0089915	.0016423
timew1w3	0 (omitted)					
w1BMIcon30						
	-.0112839	.0176672	-0.64	0.523	-.0459135	.0233457
c.timew1w3#c.w1BMIcon30						
	-.0041388	.0037326	-1.11	0.268	-.0114545	.0031769
timew1w3	0 (omitted)					
w1SRH						
2	-.8175087	.3300139	-2.48	0.013	-1.464327	-.170691
3	-.7913085	.3555853	-2.23	0.026	-1.488245	-.0943723
w1SRH#c.timew1w3						
2	-.0558617	.0704963	-0.79	0.428	-.1940323	.0823088
3	-.0128223	.0761336	-0.17	0.866	-.1620514	.1364068
timew1w3	0 (omitted)					

w1CEScent15	.0446652	.0117316	3.81	0.000	.0216644	.067666
c.timew1w3#c.w1CEScent15	-.0001462	.0025036	-0.06	0.953	-.0050544	.0047621
timew1w3	0 (omitted)					
w1dxHTN Yes	.3612413	.2718694	1.33	0.184	-.1716655	.8941482
w1dxHTN#c.timew1w3 Yes	-.0269423	.0587987	-0.46	0.647	-.1421864	.0883018
timew1w3	0 (omitted)					
w1dxDiabetes preDiabetes Diabetes	.3364475 .283441	.3179229 .3796546	1.06 0.75	0.290 0.456	-.28682 -.4619639	.9597151 1.028846
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	-.0466109 .0132521	.0680315 .0810645	-0.69 0.16	0.493 0.870	-.1799509 -.1456342	.086729 .1721384
timew1w3	0 (omitted)					
w1CVhighChol Yes	.0049047	.2998355	0.02	0.987	-.5848371	.5946465
w1CVhighChol#c.timew1w3 Yes	-.0061742	.0659874	-0.09	0.925	-.1355617	.1232132
timew1w3 1.w1cvdbr	0 (omitted) .472255	.3351208	1.41	0.159	-.1858929	1.130403
w1cvdbr#c.timew1w3 1	-.1635768	.0734338	-2.23	0.026	-.3075846	-.0195691
timew1w3 invmillsmms	0 (omitted) -.017508	.0075834	-2.31	0.021	-.0323712	-.0026448
c.timew1w3#c.invmillsmms	.0001173	.0014793	0.08	0.937	-.002782	.0030167
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.1126083	.1239364	-0.91	0.364	-.35552	.1303035
c.timew1w3#c.zw1w3HCYTRAJ	.068341	.0254898	2.68	0.007	.0183819	.1183001
w1Folatecenter14p3	-.0070528	.0202959	-0.35	0.729	-.0473231	.0332175
c.timew1w3#c.w1Folatecenter14p3	.0005385	.0038556	0.14	0.889	-.0070184	.0080953
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0021939	.0154159	0.14	0.887	-.0280382	.032426
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.0035976	.0031076	1.16	0.247	-.0024932	.0096884
_cons	7.669619	.6098686	12.58	0.000	6.474092	8.865146

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000504	.0055976	1.50e-99	1.70e+90
sd(_cons)	3.091564	.0911164	2.918039	3.275408
sd(Residual)	2.912192	.0575799	2.801495	3.027263

105 .
106 .
107 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations = 5
Number of obs	= 2,460
Number of groups	= 1,392
Obs per group:	
min	= 1
avg	= 1.8
max	= 2
Average RVI	= 0.0368
Largest FMI	= 0.3091
DF:	min = 50.26
	avg = 3296855.43
	max = 8.06e+07
F(47, 123188.3)	= 9.25
Prob > F	= 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0351816	.0666777	-0.53	0.598	-.1658702 .0955071
w1Agecent48	-.0137773	.0069582	-1.98	0.048	-.0274157 -.0001389
c.timew1w3#c.w1Agecent48	-.0028968	.0015739	-1.84	0.066	-.0059816 .0001881
timew1w3	0 (omitted)				
Sex					
Men	-.2812645	.1213599	-2.32	0.020	-.5191257 -.0434033
Sex#c.timew1w3					
Men	-.0060393	.0272559	-0.22	0.825	-.0594598 .0473813
timew1w3	0 (omitted)				
Race					
AfrAm	-.7339729	.1232203	-5.96	0.000	-.9754843 -.4924615
Race#c.timew1w3					
AfrAm	.0477746	.0278308	1.72	0.086	-.0067728 .102322
timew1w3	0 (omitted)				
PovStat					
Below	-.0370272	.1257403	-0.29	0.768	-.2834741 .2094198

PovStat#c.timew1w3						
Below	-.0453628	.0279729	-1.62	0.105	-.1001895	.009464
timew1w3	0	(omitted)				
w1edubr						
2	.360203	.246357	1.46	0.144	-.1226842	.8430903
3	.473483	.268655	1.76	0.078	-.053165	1.000131
w1edubr#c.timew1w3						
2	-.0045935	.0548553	-0.08	0.933	-.1121207	.1029338
3	-.0286402	.0594472	-0.48	0.630	-.1451598	.0878793
timew1w3	0	(omitted)				
w1WRATtotalcent42	.0729784	.0084358	8.65	0.000	.0564443	.0895124
c.timew1w3#c.w1WRATtotalcent42						
	.003136	.0019168	1.64	0.102	-.0006208	.0068927
timew1w3	0	(omitted)				
1.w1smoke	-.1507606	.1395707	-1.08	0.282	-.4266008	.1250796
w1smoke#c.timew1w3						
1	-.017828	.0306259	-0.58	0.561	-.0778863	.0422303
timew1w3	0	(omitted)				
1.w1currdrugs	.3428251	.1551187	2.21	0.027	.0387088	.6469414
w1currdrugs#c.timew1w3						
1	-.0272802	.0357385	-0.76	0.445	-.0973389	.0427785
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.0047341	.0055747	-0.85	0.397	-.0157322	.0062641
c.timew1w3#c.w1hei2010_total_scorecent43						
	.0001475	.0012646	0.12	0.907	-.0023312	.0026262
timew1w3	0	(omitted)				
w1BMICent30	-.0194009	.0086701	-2.24	0.025	-.036395	-.0024069
c.timew1w3#c.w1BMICent30						
	.0006099	.0019306	0.32	0.752	-.003174	.0043938
timew1w3	0	(omitted)				
w1SRH						
2	.4246344	.1617302	2.63	0.009	.1076381	.7416307
3	.3382569	.1743055	1.94	0.052	-.0034013	.6799151
w1SRH#c.timew1w3						
2	-.0288685	.0366784	-0.79	0.431	-.100757	.04302
3	-.0029238	.0395825	-0.07	0.941	-.0805091	.0746616
timew1w3	0	(omitted)				
w1CEScent15	-.0071838	.0056358	-1.27	0.202	-.0182302	.0038626
c.timew1w3#c.w1CEScent15						
	-.0005304	.0012688	-0.42	0.676	-.0030172	.0019564
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0450971	.1359897	0.33	0.740	-.2216415	.3118357
w1dxHTN#c.timew1w3						
Yes	-.0387598	.0307618	-1.26	0.208	-.0990568	.0215373

	timew1w3	0 (omitted)				
w1dxDiabetes						
preDiabetes		-.225845	.153064	-1.48	0.140	-.5258465
Diabetes		-.3269053	.1898937	-1.72	0.086	-.7003111
w1dxDiabetes#c.timew1w3						
preDiabetes		.069336	.0353421	1.96	0.050	.0000667
Diabetes		-.0232477	.0417663	-0.56	0.578	-.1051177
timew1w3		0 (omitted)				
w1CVhighChol						
Yes		.1471139	.1551048	0.95	0.345	-.1598821
w1CVhighChol#c.timew1w3						
Yes		.0257906	.0343697	0.75	0.453	-.0416274
timew1w3		0 (omitted)				
1.w1cvdbr		.0278948	.187356	0.15	0.882	-.3483734
w1cvdbr#c.timew1w3						
1		.0210387	.0405566	0.52	0.605	-.059132
timew1w3		0 (omitted)				
invmillsmms		.0023763	.0035346	0.67	0.501	-.0045513
c.timew1w3#c.invmillsmms						
timew1w3		0 (omitted)				
zw1w3HCYTRAJ		-.0018533	.0606464	-0.03	0.976	-.1207183
c.timew1w3#c.zw1w3HCYTRAJ						
w1Folatecenter14p3		-.0175856	.0133978	-1.31	0.189	-.0438448
c.timew1w3#c.w1Folatecenter14p3						
w1Folatecenter14p3		-.005365	.0090606	-0.59	0.554	-.0231452
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
w1Folatecenter14p3		.0007082	.0019852	0.36	0.721	-.0031829
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
w1Folatecenter14p3		.0047661	.0073176	0.65	0.515	-.0095774
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
_wcons		-.0005566	.0015779	-0.35	0.724	-.0036493
	_cons	6.606239	.2963944	22.29	0.000	6.025308
						7.18717

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.095702	.041756	.0406941 .2250664
sd(_cons)	1.378663	.0459804	1.291425 1.471794
sd(Residual)	1.372186	.0439668	1.288662 1.461122

108 .

```
109 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4fobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,741
Group variable: HNDID		
Number of groups	=	1,414
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0540
Largest FMI	=	0.3052
DF adjustment: Large sample	DF:	min = 51.50
	avg	= 5306256.71
	max	= 2.62e+08
Model F test: Equal FMI	F(47, 59125.6)	= 8.36
	Prob > F	= 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0188883	.1341732	-0.14	0.888	-.2819609 .2441844
w1Agecent48	-.0987572	.0165412	-5.97	0.000	-.1311862 -.0663282
c.timew1w3##c.w1Agecent48	-.0021506	.0031702	-0.68	0.498	-.0083642 .004063
timew1w3	0 (omitted)				
Sex					
Men	1.166079	.2863782	4.07	0.000	.6047754 1.727383
Sex#c.timew1w3					
Men	.0018155	.0548541	0.03	0.974	-.1056972 .1093283
timew1w3	0 (omitted)				
Race					
AfrAm	-1.424245	.2917153	-4.88	0.000	-1.996043 -.8524465
Race#c.timew1w3					
AfrAm	-.015236	.0563631	-0.27	0.787	-.1257098 .0952377
timew1w3	0 (omitted)				
PovStat					
Below	-.4933129	.2973047	-1.66	0.097	-1.076033 .0894068
PovStat#c.timew1w3					
Below	.0179823	.0561564	0.32	0.749	-.0920838 .1280483
timew1w3	0 (omitted)				
w1edubr					
2	-.3223745	.5780594	-0.56	0.577	-1.455473 .8107237
3	.8726499	.6285917	1.39	0.165	-.3594509 2.104751
w1edubr#c.timew1w3					
2	.0937671	.1105324	0.85	0.396	-.1230832 .3106174

	3	.065346	.1220244	0.54	0.592	-.1741171	.3048092
	timew1w3 w1WRATtotalcent42	0 .15319	(omitted) .0196165	7.81	0.000	.1147419	.1916381
c.timew1w3#c.w1WRATtotalcent42		.0028461	.0037809	0.75	0.452	-.0045649	.010257
	timew1w3 1.w1smoke	0 -.3960231	(omitted) .3333138	-1.19	0.239	-1.060252	.268206
w1smoke#c.timew1w3 1		.0234538	.06324	0.37	0.711	-.1007607	.1476683
	timew1w3 1.w1currdrugs	0 .4003174	(omitted) .3922834	1.02	0.310	-.3772061	1.177841
w1currdrugs#c.timew1w3 1		-.0287394	.0724821	-0.40	0.692	-.1708636	.1133847
	timew1w3 w1hei2010_total_scorecent43	0 .0212378	(omitted) .0134727	1.58	0.121	-.0058034	.048279
c.timew1w3#c.w1hei2010_total_scorecent43		-.0028558	.0026171	-1.09	0.275	-.0079889	.0022774
	timew1w3 w1BMIcon30	0 .0178449	(omitted) .0206616	0.86	0.388	-.02268	.0583698
c.timew1w3#c.w1BMIcon30		.0013721	.0038885	0.35	0.724	-.0062494	.0089936
	timew1w3 w1SRH 2	0 .0423296	(omitted) .3797919	0.11	0.911	-.7020754	.7867345
	3	.2190406	.4087976	0.54	0.592	-.5822284	1.02031
	w1SRH#c.timew1w3 2	.018216	.0732619	0.25	0.804	-.1253757	.1618078
	3	-.0459711	.0783997	-0.59	0.558	-.1996321	.1076899
	timew1w3 w1CEScent15	0 -.0349395	(omitted) .0132919	-2.63	0.009	-.0609939	-.0088851
c.timew1w3#c.w1CEScent15		.0021702	.002549	0.85	0.395	-.0028259	.0071663
	timew1w3 w1dxHTN Yes	0 .3892461	(omitted) .3188102	1.22	0.222	-.2365464	1.015039
	w1dxHTN#c.timew1w3 Yes	-.0558207	.0622035	-0.90	0.370	-.1777858	.0661443
	timew1w3 w1dxDiabetes preDiabetes Diabetes	0 -.084182	(omitted) .3628677	-0.23	0.817	-.7955775	.6272136
		-.0230657	.4191346	-0.06	0.956	-.8446422	.7985109
	w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.0189267	.0720205	0.26	0.793	-.1222733	.1601268
		.0798604	.0859276	0.93	0.353	-.0887287	.2484494
	timew1w3	0 (omitted)					

w1CVhighChol Yes	.1295787	.3669273	0.35	0.725	-.602339	.8614964
w1CVhighChol#c.timew1w3 Yes	.0454663	.0735425	0.62	0.537	-.0996968	.1906294
timew1w3 1.w1cvdbr	0 .2363972	(omitted) .3727496	0.63	0.526	-.4950407	.9678351
w1cvdbr#c.timew1w3 1	-.0326613	.0763272	-0.43	0.669	-.1823689	.1170463
timew1w3 invmillsmms	0 .0092221	(omitted) .0088885	1.04	0.299	-.0081991	.0266434
c.timew1w3#c.invmillsmms	-.0014671	.0015798	-0.93	0.353	-.0045634	.0016292
timew1w3 zw1w3HCYTRAJ	0 -.0465902	(omitted) .1432527	-0.33	0.745	-.3273608	.2341804
c.timew1w3#c.zw1w3HCYTRAJ	-.0373905	.0268345	-1.39	0.164	-.0899854	.0152043
w1Folatecenter14p3	.030244	.02092	1.45	0.148	-.0107613	.0712494
c.timew1w3#c.w1Folatecenter14p3	-.0003657	.004048	-0.09	0.928	-.0083007	.0075693
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0124962	.017457	-0.72	0.474	-.0467143	.0217219
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0002426	.0032437	-0.07	0.940	-.0066003	.006115
_cons	19.00365	.6984045	27.21	0.000	17.63464	20.37265

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1110044	.1870931	.0040801	3.019992
sd(_cons)	3.863081	.0992641	3.673345	4.062618
sd(Residual)	3.014084	.0946561	2.834155	3.205436

```

110 .
111 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4gobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 2,686

Group variable: HNDID Number of groups = 1,412
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0640
 Largest FMI = 0.4325
 DF adjustment: Large sample DF: min = 26.20
 avg = 227,042.76
 max = 3662473.59
 Model F test: Equal FMI F(47,43356.8) = 10.59
 Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.01397	.0528609	0.26	0.792	.0896361	.117576
w1Agecent48	-.0068162	.0063865	-1.07	0.286	-.0193342	.0057019
c.timew1w3#c.w1Agecent48	-.0037415	.0012669	-2.95	0.003	-.0062246	-.0012584
timew1w3	0	(omitted)				
Sex						
Men	.1909301	.1115972	1.71	0.087	-.0278071	.4096674
Sex#c.timew1w3						
Men	-.0379198	.0219002	-1.73	0.083	-.0808445	.0050049
timew1w3	0	(omitted)				
Race						
AfrAm	-.2953712	.1139023	-2.59	0.010	-.5186882	-.0720541
Race#c.timew1w3						
AfrAm	-.0128842	.022232	-0.58	0.562	-.0564582	.0306898
timew1w3	0	(omitted)				
PovStat						
Below	-.1085516	.1151399	-0.94	0.346	-.3342294	.1171263
PovStat#c.timew1w3						
Below	-.0180718	.02229	-0.81	0.418	-.0617599	.0256162
timew1w3	0	(omitted)				
w1edubr						
2	-.0899468	.2245498	-0.40	0.689	-.5300644	.3501709
3	.1945149	.2448977	0.79	0.427	-.2855092	.674539
w1edubr#c.timew1w3						
2	-.0027735	.0428705	-0.06	0.948	-.0867984	.0812513
3	-.0234046	.0470808	-0.50	0.619	-.1156831	.0688739
timew1w3	0	(omitted)				
w1WRATtotalcent42	.1116943	.0076926	14.52	0.000	.0966154	.1267731
c.timew1w3#c.w1WRATtotalcent42	.0001087	.0015064	0.07	0.942	-.0028439	.0030613
timew1w3	0	(omitted)				
1.w1smoke	.1863698	.1290052	1.44	0.153	-.0704365	.443176

w1smoke#c.timew1w3							
	1						
timew1w3							
1.w1currdrugs							
w1currdrugs#c.timew1w3							
	1						
timew1w3							
w1hei2010_total_scorecent43							
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3							
w1BMIcon30							
c.timew1w3#c.w1BMIcon30							
timew1w3							
w1SRH							
	2						
	3						
w1SRH#c.timew1w3							
	2						
	3						
timew1w3							
w1CEScent15							
c.timew1w3#c.w1CEScent15							
timew1w3							
w1dxHTN							
Yes							
w1dxHTN#c.timew1w3							
Yes							
timew1w3							
w1dxDiabetes							
preDiabetes							
Diabetes							
w1dxDiabetes#c.timew1w3							
preDiabetes							
Diabetes							
timew1w3							
w1CVhighChol							
Yes							
w1CVhighChol#c.timew1w3							
Yes							
timew1w3							
1.w1cvdbr							
timew1w3							

w1cvdbr#c.timew1w3							
	1	-.0036099	.0301076	-0.12	0.905	-.0626288	.0554091
timew1w3		0	(omitted)				
invmillsmms		.0056402	.0034346	1.64	0.101	-.0010914	.0123719
c.timew1w3#c.invmillsmms		-.0004965	.0006206	-0.80	0.424	-.0017127	.0007198
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		-.0034064	.0553895	-0.06	0.951	-.1119682	.1051554
c.timew1w3#c.zw1w3HCYTRAJ		-.0164087	.0106008	-1.55	0.122	-.0371858	.0043685
w1Folatecenter14p3		.0070736	.0083641	0.85	0.398	-.0093383	.0234855
c.timew1w3#c.w1Folatecenter14p3		-.0007495	.0016147	-0.46	0.643	-.0039146	.0024157
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0039219	.0068284	0.57	0.566	-.0094627	.0173064
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		-.0009218	.0012954	-0.71	0.477	-.0034609	.0016172
_cons		7.239174	.2733852	26.48	0.000	6.703242	7.775106

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.089333	.0360123	.0405387 .1968585
sd(_cons)	1.512975	.0394051	1.437678 1.592215
sd(Residual)	1.154246	.0374933	1.083051 1.230122

```

112 .
113 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Number of groups = 1,413
Number of obs = 2,673
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = .
Largest FMI = .
DF: min = 0.00
        avg = .
        max = .
F( 47,32665.2) = 14.91
Prob > F = 0.0000

```

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0261521	.0552133	-0.47	0.636	-.1343975 .0820934
	w1Agecent48	-.0161861	.0061843	-2.62	0.009	-.0283091 -.004063
c.timew1w3#c.w1Agecent48		-.0016705	.0013022	-1.28	0.200	-.0042229 .0008818
	timew1w3	0	(omitted)			
	Sex					
	Men	-.0751443	.1072285	-0.70	0.483	-.2853135 .1350248
	Sex#c.timew1w3					
	Men	-.0217811	.022575	-0.96	0.335	-.0660275 .0224652
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.5520805	.1077366	-5.12	0.000	-.763241 -.34092
	Race#c.timew1w3					
	AfrAm	-.0244467	.0229457	-1.07	0.287	-.0694199 .0205264
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.0933821	.1109629	-0.84	0.400	-.3108818 .1241176
	PovStat#c.timew1w3					
	Below	-.000959	.0230166	-0.04	0.967	-.0460715 .0441535
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.2010103	.2156101	-0.93	0.351	-.6236033 .2215828
	3	.1310539	.2350552	0.56	0.577	-.3296565 .5917643
	w1edubr#c.timew1w3					
	2	.0550062	.0441601	1.25	0.213	-.0315463 .1415587
	3	.0257637	.048411	0.53	0.595	-.0691204 .1206477
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.1218461	.0073716	16.53	0.000	.1073979 .1362943
c.timew1w3#c.w1WRATtotalcent42		-.0019396	.0015618	-1.24	0.214	-.0050008 .0011216
	timew1w3	0	(omitted)			
	1.w1smoke	-.0118823	.1284325	-0.09	0.927	-.2684961 .2447315
	w1smoke#c.timew1w3					
	1	.001418	.0281374	0.05	0.960	-.0545699 .057406
	timew1w3	0	(omitted)			
	1.w1currdrugs	.1301994	.1466182	0.89	0.376	-.1594612 .41986
	w1currdrugs#c.timew1w3					
	1	.0262919	.0305491	0.86	0.390	-.033683 .0862668
	timew1w3	0	(omitted)			
	w1hei2010_total_scorecent43	-.0018699	.0052418	-0.36	0.723	-.0124107 .008671
c.timew1w3#c.w1hei2010_total_scorecent43		.0012545	.0012049	1.04	0.302	-.0011536 .0036626

	timew1w3	0	(omitted)				
w1BMIcon30		-.0020846	.0077442	-0.27	0.788	-.0172729	.0131038
c.timew1w3#c.w1BMIcon30		-.0029736	.0016214	-1.83	0.067	-.0061524	.0002053
	timew1w3	0	(omitted)				
w1SRH							
2		-.0020794	.1430111	-0.01	0.988	-.2824162	.2782574
3		.1151365	.1578678	0.73	0.466	-.1947738	.4250469
w1SRH#c.timew1w3							
2		-.0243337	.0302311	-0.80	0.421	-.0835864	.0349189
3		-.0281785	.0326692	-0.86	0.388	-.0922138	.0358568
	timew1w3	0	(omitted)				
w1CEScent15		-.0043127	.0049432	-0.87	0.383	-.0140012	.0053759
c.timew1w3#c.w1CEScent15		-.0008889	.0010494	-0.85	0.397	-.0029457	.0011679
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0602347	.1188816	-0.51	0.612	-.2933752	.1729059
w1dxHTN#c.timew1w3							
Yes		.0098372	.0255446	0.39	0.700	-.0402367	.0599112
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2345167	.1354669	1.73	0.083	-.0310129	.5000463
Diabetes		-.1203483	.1717633	-0.70	0.485	-.4596276	.2189311
w1dxDiabetes#c.timew1w3							
preDiabetes		.0038281	.0292496	0.13	0.896	-.0535019	.061158
Diabetes		-.0119829	.035656	-0.34	0.737	-.0819198	.057954
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0368518	.1291133	-0.29	0.775	-.2907033	.2169997
w1CVhighChol#c.timew1w3							
Yes		.0247494	.0302298	0.82	0.414	-.0349258	.0844246
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0089508	.1968152	-0.05	0.964	-.4273606	.409459
w1cvdbr#c.timew1w3							
1		.025539	.0346155	0.74	0.463	-.0432649	.0943428
	timew1w3	0	(omitted)				
invmillsmms		.005056	.0032953	1.53	0.125	-.0014026	.0115146
c.timew1w3#c.invmillsmms		-.0004077	.0006387	-0.64	0.523	-.0016595	.0008441
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0296046	.0531746	-0.56	0.578	-.1338251	.074616
c.timew1w3#c.zw1w3HCYTRAJ		-.0028702	.010886	-0.26	0.792	-.0242063	.0184659

w1Folatecenter14p3	.0089819	.008045	1.12	0.264	-.0068003	.0247642
c.timew1w3#c.w1Folatecenter14p3	-.0012238	.0016625	-0.74	0.462	-.0044824	.0020347
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0010762	.0065298	-0.16	0.869	-.0138745	.011722
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0021639	.0013386	-1.62	0.106	-.0047875	.0004598
_cons	5.934006	.2676815	22.17	0.000	5.408803	6.459209

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	3.36e-07	.	.	.
sd(_cons)	1.341834	.0390434	1.267451	1.420582
sd(Residual)	1.233456	.0246949	1.185992	1.282819

```

114 .
115 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,736
Number of groups = 1,414
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0472
Largest FMI = 0.2646
DF: min = 67.66
        avg = 738,172.24
        max = 1.71e+07
F( 47,76548.8) = 5.41
Prob > F = 0.0000

```

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0616257	.0424317	-1.45	0.146	-.1448129 .0215615
w1Agecent48	-.0041138	.0038067	-1.08	0.280	-.0115749 .0033472
c.timew1w3#c.w1Agecent48	-.0014774	.0010013	-1.48	0.140	-.0034401 .0004853
timew1w3	0 (omitted)				
Sex					
Men	.0729098	.0663225	1.10	0.272	-.0570802 .2028998
Sex#c.timew1w3					
Men	.013574	.0173001	0.78	0.433	-.0203337 .0474817
timew1w3	0 (omitted)				
Race					

AfrAm		- .3410244	.067031	-5.09	0.000	- .4724029	- .2096459
Race#c.timew1w3							
AfrAm		.0236589	.0176196	1.34	0.179	- .0108752	.0581931
timew1w3			0 (omitted)				
PovStat							
Below			.0788837	.0688139	1.15	0.252	- .0559893
PovStat#c.timew1w3							
Below			- .0025091	.0176289	-0.14	0.887	- .0370613
timew1w3				0 (omitted)			
w1edubr							
2			-.0125207	.1372952	-0.09	0.927	- .2817157
3			.1818016	.149216	1.22	0.223	- .110737
w1edubr#c.timew1w3							
2			.0446763	.0344952	1.30	0.195	- .0229435
3			.053381	.0378119	1.41	0.158	- .0207402
timew1w3				0 (omitted)			
w1WRATtotalcent42				.0273229	.0046333	5.90	0.000
c.timew1w3#c.w1WRATtotalcent42							
timew1w3			- .0011084	.0012038	-0.92	0.357	- .0034687
1.w1smoke					0 (omitted)		
w1smoke#c.timew1w3				-.0146029	.0750353	-0.19	0.846
1							
timew1w3			.0093752	.0199141	0.47	0.638	- .0297647
1.w1currdrugs					0 (omitted)		
w1currdrugs#c.timew1w3				.3128791	.0953201	3.28	0.001
1							
timew1w3			-.0588144	.0226085	-2.60	0.009	- .1031329
w1hei2010_total_scorecent43					0 (omitted)		
timew1w3			.0015766	.0030841	0.51	0.610	- .0044928
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3			.0005606	.0008568	0.65	0.514	- .0011293
w1BMIcon30					0 (omitted)		
c.timew1w3#c.w1BMIcon30				-.0044282	.0047746	-0.93	0.354
timew1w3							
w1SRH			.0012311	.0012231	1.01	0.314	- .0011662
2					0 (omitted)		
3					.152278	.0885508	1.72
w1SRH#c.timew1w3					-.0120529	.0953424	-0.13
2							
timew1w3			.0034022	.0231525	0.15	0.883	- .041976
w1CEScent15				.0144564	.0248186	0.58	0.560
timew1w3					0 (omitted)		
w1CEScent15				-.0071611	.0031034	-2.31	0.021

c.timew1w3#c.w1CEScent15	.0006983	.0008096	0.86	0.388	-.0008886	.0022852
timew1w3	0 (omitted)					
w1dxHTN Yes	.0650442	.0753345	0.86	0.388	-.0827736	.212862
w1dxHTN#c.timew1w3 Yes	-.0380022	.0195447	-1.94	0.052	-.0763191	.0003147
timew1w3	0 (omitted)					
w1dxDiabetes preDiabetes Diabetes	-.0483628 .0460128	.0853432 .1112017	-0.57 0.41	0.571 0.680	-.215672 -.1749987	.1189464 .2670243
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.0178631 -.0427011	.022389 .0275804	0.80 -1.55	0.425 0.122	-.0260233 -.0968708	.0617495 .0114686
timew1w3	0 (omitted)					
w1CVhighChol Yes	-.05366	.0896439	-0.60	0.551	-.2325581	.1252381
w1CVhighChol#c.timew1w3 Yes	.0073632	.0222016	0.33	0.740	-.0362633	.0509896
timew1w3 1.w1cvdbr	0 (omitted) -.0796985	.0911312	-0.87	0.382	-.2585364	.0991393
w1cvdbr#c.timew1w3 1	-.0006218	.025622	-0.02	0.981	-.0512418	.0499983
timew1w3 invmillsmms	0 (omitted) .000866	.0020749	0.42	0.676	-.0032006	.0049327
c.timew1w3#c.invmillsmms	-.0002909	.0004964	-0.59	0.558	-.0012639	.0006822
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0160714	.0333327	-0.48	0.630	-.0814037	.0492609
c.timew1w3#c.zw1w3HCYTRAJ	-.0114741	.0084209	-1.36	0.173	-.0279788	.0050306
w1Folatecenter14p3	.006888	.0050133	1.37	0.170	-.0029438	.0167198
c.timew1w3#c.w1Folatecenter14p3	-.0000848	.0012857	-0.07	0.947	-.0026049	.0024353
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.007728	.004082	1.89	0.058	-.0002727	.0157286
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0025337	.0010329	-2.45	0.014	-.0045581	-.0005093
_cons	8.760413	.1652983	53.00	0.000	8.436364	9.084462

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0351332	.040508	.0036668	.3366247
sd(_cons)	.6188281	.0306256	.5616223	.6818607
sd(Residual)	.9604828	.0245718	.9135102	1.009871

116 .

```
117 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4jobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,670
Group variable: HNDID	Number of groups = 1,397
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0440
	Largest FMI = 0.3188
DF adjustment: Large sample	DF: min = 47.35
	avg = 5369720.56
	max = 1.10e+08
Model F test: Equal FMI	F(47,86989.1) = 10.92
	Prob > F = 0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0081821	.0112175	0.73	0.466	-.0138051 .0301693
w1Agecent48	.0114166	.0011704	9.75	0.000	.0091226 .0137105
c.timew1w3#c.w1Agecent48	.0003965	.0002628	1.51	0.131	-.0001186 .0009117
timew1w3	0 (omitted)				
Sex					
Men	.0966173	.0204399	4.73	0.000	.0565558 .1366788
Sex#c.timew1w3					
Men	.0017149	.0045622	0.38	0.707	-.0072269 .0106567
timew1w3	0 (omitted)				
Race					
AfrAm	.1622806	.0206135	7.87	0.000	.1218789 .2026824
Race#c.timew1w3					
AfrAm	-.0010439	.0046265	-0.23	0.821	-.0101117 .0080239
timew1w3	0 (omitted)				
PovStat					
Below	.0464643	.0211881	2.19	0.028	.0049362 .0879924
PovStat#c.timew1w3					

	Below	.0003828	.0046406	0.08	0.934	-.0087125	.0094782
	timew1w3	0 (omitted)					
	w1edubr						
	2	-.0639104	.0425517	-1.50	0.133	-.1473484	.0195276
	3	-.0457499	.0463409	-0.99	0.324	-.1366305	.0451306
	w1edubr#c.timew1w3						
	2	-.0065073	.0091461	-0.71	0.477	-.0244359	.0114213
	3	-.0100226	.0100317	-1.00	0.318	-.0296882	.009643
	timew1w3	0 (omitted)					
	w1WRATtotalcent42	-.007477	.001434	-5.21	0.000	-.0102875	-.0046664
	c.timew1w3#c.w1WRATtotalcent42	-.0004235	.0003187	-1.33	0.184	-.0010481	.0002011
	timew1w3	0 (omitted)					
	1.w1smoke	-.0045089	.0235611	-0.19	0.848	-.0510688	.0420511
	w1smoke#c.timew1w3						
	1	.0023476	.0051265	0.46	0.647	-.0077034	.0123986
	timew1w3	0 (omitted)					
	1.w1currdrugs	.042291	.0273785	1.54	0.123	-.0115649	.096147
	w1currdrugs#c.timew1w3						
	1	-.005212	.0061531	-0.85	0.397	-.0172901	.0068661
	timew1w3	0 (omitted)					
	w1hei2010_total_scorecent43	.0002833	.0010015	0.28	0.778	-.0017225	.0022892
	c.timew1w3#c.w1hei2010_total_scorecent43	.0001383	.0002298	0.60	0.548	-.0003152	.0005917
	timew1w3	0 (omitted)					
	w1BMIcon30	.0018321	.0014754	1.24	0.214	-.0010608	.0047249
	c.timew1w3#c.w1BMIcon30	-.0004481	.0003218	-1.39	0.164	-.0010787	.0001826
	timew1w3	0 (omitted)					
	w1SRH						
	2	-.0805345	.0273039	-2.95	0.003	-.1340492	-.0270198
	3	-.0578123	.0293717	-1.97	0.049	-.1153803	-.0002443
	w1SRH#c.timew1w3						
	2	.0010545	.0061707	0.17	0.864	-.0110399	.0131489
	3	-.0026734	.0066065	-0.40	0.686	-.015622	.0102752
	timew1w3	0 (omitted)					
	w1CEScent15						
	1	.0017103	.0009528	1.79	0.073	-.0001573	.0035778
	c.timew1w3#c.w1CEScent15	.0003288	.0002127	1.55	0.122	-.0000881	.0007456
	timew1w3	0 (omitted)					
	w1dxHTN						
	Yes	-.0091912	.0234373	-0.39	0.695	-.0552579	.0368754
	w1dxHTN#c.timew1w3						
	Yes	.0048098	.0051855	0.93	0.354	-.0053568	.0149763
	timew1w3	0 (omitted)					

w1dxDiabetes						
preDiabetes	.0151125	.0266299	0.57	0.570	-.0371305	.0673554
Diabetes	.0311887	.0334162	0.93	0.353	-.0349677	.0973451
w1dxDiabetes#c.timew1w3						
preDiabetes	.0032602	.0059154	0.55	0.582	-.008334	.0148544
Diabetes	-.0018956	.007049	-0.27	0.788	-.0157115	.0119203
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0278908	.0279869	-1.00	0.324	-.0841821	.0284005
w1CVhighChol#c.timew1w3						
Yes	.0064145	.0058554	1.10	0.274	-.0050846	.0179136
timew1w3	0	(omitted)				
1.w1cvdbr	.013927	.0278803	0.50	0.618	-.040851	.0687051
w1cvdbr#c.timew1w3						
1	.0037284	.0066432	0.56	0.575	-.0093626	.0168195
timew1w3	0	(omitted)				
invmillsmms	.0002701	.0006256	0.43	0.666	-.0009559	.0014962
c.timew1w3#c.invmillsmms						
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.0253016	.0105017	2.41	0.016	.0047187	.0458846
c.timew1w3#c.zw1w3HCYTRAJ						
w1Folatecenter14p3	-.0013586	.0022741	-0.60	0.550	-.0058158	.0030986
c.timew1w3#c.w1Folatecenter14p3						
w1Folatecenter14p3	-.0014279	.0015271	-0.94	0.350	-.0044211	.0015652
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	.000152	.000347	0.44	0.661	-.0005284	.0008324
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3	-.0008005	.0014277	-0.56	0.575	-.0035987	.0019977
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3						
_cons	3.412858	.0517182	65.99	0.000	3.311418	3.514298

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0208633	.0063984	.0114376 .0380567
sd(_cons)	.2507053	.007773	.2359241 .2664126
sd(Residual)	.2383072	.0076275	.2238167 .2537357

```

118 .
119 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1Folatecenter14p3 ///
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,578
Number of groups = 1,383
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0499
Largest FMI = 0.2620
DF: min = 68.94
      avg = 7.03e+09
      max = 3.58e+11
F( 47,68559.5) = 17.96
Prob > F = 0.0000

```

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0124101	.0171156	0.73	0.468	.0211496	.0459698
w1Agecent48	.0155641	.0018473	8.43	0.000	.0119435	.0191848
c.timew1w3#c.w1Agecent48	.000643	.0003899	1.65	0.099	-.0001212	.0014072
timew1w3	0 (omitted)					
Sex						
Men	.0649063	.032391	2.00	0.045	.0014196	.128393
Sex#c.timew1w3						
Men	-.0036879	.00679	-0.54	0.587	-.0169965	.0096207
timew1w3	0 (omitted)					
Race						
AfrAm	.336384	.0326585	10.30	0.000	.2723739	.4003942
Race#c.timew1w3						
AfrAm	-.0004657	.0069343	-0.07	0.946	-.0140567	.0131252
timew1w3	0 (omitted)					
PovStat						
Below	.0991386	.0335631	2.95	0.003	.0333554	.1649218
PovStat#c.timew1w3						
Below	.0002043	.0069557	0.03	0.977	-.013429	.0138376
timew1w3	0 (omitted)					
w1edubr						
2	-.1095671	.0664043	-1.65	0.099	-.2397232	.0205889
3	-.1961551	.0716354	-2.74	0.006	-.3365579	-.0557523
w1edubr#c.timew1w3						
2	-.0065341	.013875	-0.47	0.638	-.0337323	.0206641

	3		- .0067326	.0150435	-0.45	0.654	- .0362199	.0227548
	timew1w3		0	(omitted)				
w1WRATtotalcent42			- .0244304	.0022947	-10.65	0.000	- .0289282	- .0199325
c.timew1w3#c.w1WRATtotalcent42			- .0002578	.000495	-0.52	0.602	- .0012279	.0007123
	timew1w3		0	(omitted)				
1.w1smoke			- .0051504	.0382996	-0.13	0.893	- .0813818	.071081
	w1smoke#c.timew1w3							
1			.0076615	.0082069	0.93	0.352	- .0085354	.0238583
	timew1w3		0	(omitted)				
1.w1currdrugs			- .0354697	.0459371	-0.77	0.442	- .1269124	.0559729
	w1currdrugs#c.timew1w3							
1			- .0028306	.009619	-0.29	0.769	- .0218164	.0161552
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			.0007631	.0015031	0.51	0.613	- .0022231	.0037493
c.timew1w3#c.w1hei2010_total_scorecent43			- .0001312	.0003666	-0.36	0.722	- .0008626	.0006001
	timew1w3		0	(omitted)				
w1BMIcon30			- .0006517	.0022967	-0.28	0.777	- .0051533	.0038499
c.timew1w3#c.w1BMIcon30			- .0004914	.0004819	-1.02	0.308	- .0014359	.000453
	timew1w3		0	(omitted)				
w1SRH								
2			- .1337003	.0435547	-3.07	0.002	- .2190774	- .0483232
3			- .0717377	.0470201	-1.53	0.127	- .163921	.0204456
	w1SRH#c.timew1w3							
2			.0030987	.0093547	0.33	0.740	- .0152374	.0214349
3			- .0019961	.0101603	-0.20	0.844	- .0219164	.0179242
	timew1w3		0	(omitted)				
w1CEScent15			.0072347	.0015567	4.65	0.000	.0041786	.0102907
c.timew1w3#c.w1CEScent15			- .000071	.0003216	-0.22	0.825	- .0007013	.0005593
	timew1w3		0	(omitted)				
w1dxHTN								
Yes			.0304993	.0359716	0.85	0.397	- .040044	.1010425
	w1dxHTN#c.timew1w3							
Yes			- .0049322	.0076342	-0.65	0.518	- .019895	.0100307
	timew1w3		0	(omitted)				
w1dxDiabetes								
preDiabetes			.0795512	.0415747	1.91	0.056	- .0019644	.1610667
Diabetes			.1030753	.0503256	2.05	0.041	.004126	.2020247
	w1dxDiabetes#c.timew1w3							
preDiabetes			- .0114976	.008778	-1.31	0.190	- .0287021	.005707
Diabetes			- .0007394	.0108367	-0.07	0.946	- .0219886	.0205098
	timew1w3		0	(omitted)				

w1CVhighChol Yes		-.0077875	.0391538	-0.20	0.842	-.0848082	.0692331
w1CVhighChol#c.timew1w3 Yes		-.0021629	.0084349	-0.26	0.798	-.0186949	.0143692
timew1w3 1.w1cvdbr		0 <i>(omitted)</i>	-.060685	.0428403	-1.42	0.157	-.1447211
w1cvdbr#c.timew1w3 1		.016982	.0093452	1.82	0.069	-.0013407	.0353048
timew1w3 invmillsmms		0 <i>(omitted)</i>	-.0026593	.0009901	-2.69	0.007	-.0045998
c.timew1w3#c.invmillsmms		-.0002581	.0004768	-0.54	0.588	-.0011926	.0006765
timew1w3 zw1w3HCYTRAJ		0 <i>(omitted)</i>	.0183096	.0165707	1.10	0.269	-.0141684
c.timew1w3#c.zw1w3HCYTRAJ		.0069901	.0033711	2.07	0.038	.0003829	.0135973
w1Folatecenter14p3		.0023559	.0025163	0.94	0.350	-.0025883	.0073
c.timew1w3#c.w1Folatecenter14p3		.0001096	.0005083	0.22	0.829	-.0008867	.0011059
c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0020273	.0022588	0.90	0.369	-.0024008	.0064555
c.timew1w3#c.zw1w3HCYTRAJ#c.w1Folatecenter14p3		.0000458	.0004598	0.10	0.921	-.0008553	.000947
_cons		4.543261	.0811857	55.96	0.000	4.384078	4.702445

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	4.30e-06	.0010481	2.1e-213	8.9e+201
sd(_cons)	.4121431	.0123689	.3885997	.4371129
sd(Residual)	.3591919	.0076495	.3445078	.3745018

```

120 .
121 .
122 . save, replace
    file finaldata_imputed_FINAL.dta saved

123 .
124 .

```

```

125 .
126 .
127 . ****TABLE S1: HOMOCYSTEINE AT BASELINE VS. COGNITIVE CHANGE OVER TIME: INTERACTION B
128 .
129 .
130 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
131 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,621
Number of groups = 1,398
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI = 0.0264
Largest FMI = 0.3808
DF: min = 33.61
avg = 3.01e+11
max = 5.96e+12
F( 17,60730.3) = 11.17
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0141768	.0206019	-0.69	0.491	-.0545559 .0262023
w1Agecent48		-.0285079	.0055866	-5.10	0.000	-.0394575 -.0175584
c.timew1w3#c.w1Agecent48		-.0024164	.0011511	-2.10	0.036	-.0046726 -.0001602
timew1w3		0	(omitted)			
Sex						
Men		-.3683225	.1047321	-3.52	0.000	-.5735937 -.1630513
Sex#c.timew1w3						
Men		.0208552	.0216832	0.96	0.336	-.0216431 .0633536
timew1w3		0	(omitted)			
Race						
AfrAm		-.814258	.1049044	-7.76	0.000	-1.019867 -.6086492
Race#c.timew1w3						
AfrAm		.0063568	.0219125	0.29	0.772	-.0365909 .0493045
timew1w3		0	(omitted)			
PovStat						
Below		-.5336942	.1073503	-4.97	0.000	-.744097 -.3232914
PovStat#c.timew1w3						
Below		-.0258975	.021791	-1.19	0.235	-.068607 .016812
timew1w3		0	(omitted)			
invmillsmms		.0092042	.0033235	2.77	0.006	.0026902 .0157183
c.timew1w3#c.invmillsmms		-.0018744	.0006115	-3.07	0.002	-.0030729 -.000676

timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0497827	.0643946	-0.77	0.440	-.1764753	.0769099	
c.timew1w3#c.zw1w3HCYTRAJ	.0022291	.0127739	0.17	0.861	-.0228127	.0272709	
w1B12center522	.0003402	.0002339	1.45	0.146	-.0001185	.0007988	
c.timew1w3#c.w1B12center522	-.0000684	.0000485	-1.41	0.159	-.0001635	.0000267	
c.zw1w3HCYTRAJ#c.w1B12center522	.0000979	.00037	0.26	0.793	-.0006543	.0008501	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-3.60e-06	.0000669	-0.05	0.957	-.0001351	.0001279	
_cons	28.65984	.097331	294.46	0.000	28.46907	28.85062	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.90e-06	.0004183	5.9e-194	6.1e+181
sd(_cons)	1.436435	.0453545	1.350237	1.528137
sd(Residual)	1.22107	.0272382	1.168835	1.275641

```

132 .
133 .
134 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,621

Number of groups = 1,398
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0112
Largest FMI = 0.1841
DF: min = 135.01
    avg = 2.47e+16
    max = 5.20e+17
F( 17, 325338.5) = 13.34
Prob > F = 0.0000

```

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.2218353	.1688942	-1.31	0.189	-.5528621	.1091915
w1Agecent48	-.2266125	.042092	-5.38	0.000	-.3091113	-.1441137
c.timew1w3#c.w1Agecent48	-.0181217	.0094435	-1.92	0.055	-.0366306	.0003872
timew1w3	0 (omitted)					
Sex						
Men	-2.11255	.7897542	-2.67	0.007	-3.66044	-.5646604
Sex#c.timew1w3						
Men	.1458782	.1778875	0.82	0.412	-.2027749	.4945312

	timew1w3	0 (omitted)					
Race	AfrAm	-7.142568	.7910117	-9.03	0.000	-8.692922	-5.592214
Race#c.timew1w3	AfrAm	.1166337	.1797553	0.65	0.516	-.2356803	.4689477
timew1w3	PovStat	0 (omitted)					
PovStat	Below	-4.13784	.8096901	-5.11	0.000	-5.724803	-2.550876
PovStat#c.timew1w3	Below	-.2696932	.1787707	-1.51	0.131	-.6200774	.080691
timew1w3	invmillsmms	0 (omitted)					
c.timew1w3#c.invmillsmms		.0525262	.0250662	2.10	0.036	.0033974	.101655
timew1w3	zw1w3HCYTRAJ	-.2520176	.4681874	-0.54	0.590	-1.170222	.6661869
c.timew1w3#c.zw1w3HCYTRAJ		.0192923	.1039294	0.19	0.853	-.1844173	.2230019
w1B12center522		.0019792	.0017485	1.13	0.258	-.001448	.0054064
c.timew1w3#c.w1B12center522		-.0004241	.000397	-1.07	0.285	-.0012022	.0003539
c.zw1w3HCYTRAJ#c.w1B12center522		.0003801	.0024825	0.15	0.879	-.0045296	.0052897
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522		.0001448	.0005324	0.27	0.786	-.0008994	.0011891
	_cons	83.85859	.7303144	114.83	0.000	82.4272	85.28999

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0000208	.0032721	4.5e-139	9.7e+128	
sd(_cons)	10.04979	.334121	9.415803	10.72646	
sd(Residual)	10.05819	.2116652	9.651769	10.48172	

135 .
 136 .
 137 .

```
138 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,435
Number of groups = 1,391
Obs per group:
    min = 1
    avg = 1.8
    max = 2
Average RVI = 0.0088
Largest FMI = 0.1072
DF: min = 380.72
        avg = 5.89e+10
        max = 9.03e+11
F( 17, 523364.6) = 77.96
Prob > F = 0.0000
```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.158678	.0717581	-16.15	0.000	-1.299322	-1.018035
w1Agecent48	-.1523114	.0196046	-7.77	0.000	-.1907357	-.1138872
c.timew1w3##c.w1Agecent48	-.0080998	.0039166	-2.07	0.039	-.0157762	-.0004234
timew1w3	0	(omitted)				
Sex						
Men	-2.470285	.3665295	-6.74	0.000	-3.188669	-1.7519
Sex#c.timew1w3						
Men	-.1432297	.0733601	-1.95	0.051	-.2870128	.0005533
timew1w3	0	(omitted)				
Race						
AfrAm	-3.006688	.369197	-8.14	0.000	-3.730304	-2.283073
Race#c.timew1w3						
AfrAm	.1028353	.0744023	1.38	0.167	-.0429905	.2486612
timew1w3	0	(omitted)				
PovStat						
Below	-1.713967	.3713841	-4.62	0.000	-2.441866	-.9860674
PovStat#c.timew1w3						
Below	.0010837	.0724099	0.01	0.988	-.1408371	.1430044
timew1w3	0	(omitted)				
invmillsmms	.0197093	.0111417	1.77	0.077	-.002128	.0415466
c.timew1w3##c.invmillsmms	-.0004099	.0019916	-0.21	0.837	-.0043134	.0034936
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.4830099	.2170318	2.23	0.026	.0575445	.9084753
c.timew1w3##c.zw1w3HCYTRAJ	-.0666269	.0425267	-1.57	0.117	-.1499798	.0167261
w1B12center522	.0015025	.0008427	1.78	0.075	-.0001545	.0031595

c.timew1w3#c.w1B12center522	- .0001314	.0001643	-0.80	0.424	- .0004534	.0001907
c.zw1w3HCYTRAJ#c.w1B12center522	.0005551	.0010739	0.52	0.605	- .001552	.0026621
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	- .0000779	.0002113	-0.37	0.712	- .000492	.0003362
_cons	28.32308	.3450453	82.09	0.000	27.6468	28.99936

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.2710047	.1399045	.0985257	.7454255
sd(_cons)	4.929206	.1351234	4.671357	5.201286
sd(Residual)	3.755805	.1354822	3.499434	4.030957

```

139 .
140 .
141 .
142 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4cobs==1 || HNDID:

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,313

Number of groups = 1,365
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0124
Largest FMI = 0.1429
DF: min = 219.21
    avg = 7.89e+10
    max = 9.83e+11
F( 17,290398.5) = 47.84
Prob > F = 0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.3648233	.0351792	-10.37	0.000	-.4337735	-.2958731
w1Agecent48	-.079702	.0092134	-8.65	0.000	-.09776	-.061644
c.timew1w3#c.w1Agecent48	-.0037659	.0019214	-1.96	0.050	-.0075319	7.32e-09
timew1w3	0 (omitted)					
Sex						
Men	-1.113711	.1720012	-6.48	0.000	-1.450827	-.7765944
Sex#c.timew1w3						
Men	-.0434944	.0357437	-1.22	0.224	-.1135507	.026562
timew1w3	0 (omitted)					
Race						
AfrAm	-1.61438	.1728412	-9.34	0.000	-1.953143	-1.275618

Race#c.timew1w3 AfrAm	.019555	.0363354	0.54	0.590	-.051661	.090771
timew1w3	0 (omitted)					
PovStat Below	-.5822478	.1737226	-3.35	0.001	-.9227378	-.2417579
PovStat#c.timew1w3 Below	-.0266858	.0352464	-0.76	0.449	-.0957674	.0423959
timew1w3 invmillsmms	0 (omitted) .009358	.0051615	1.81	0.070	-.0007583	.0194743
c.timew1w3#c.invmillsmms	-.0003945	.0009393	-0.42	0.674	-.0022355	.0014465
timew1w3 zw1w3HCYTRAJ	0 (omitted) .3248848	.1055775	3.08	0.002	.117762	.5320076
c.timew1w3#c.zw1w3HCYTRAJ	-.0336872	.0207834	-1.62	0.105	-.0744354	.0070611
w1B12center522	.0003449	.0003933	0.88	0.381	-.0004271	.001117
c.timew1w3#c.w1B12center522	.0000691	.0000814	0.85	0.396	-.0000905	.0002286
c.zw1w3HCYTRAJ#c.w1B12center522	.0004205	.0005503	0.76	0.446	-.0006642	.0015051
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000161	.0001083	-0.15	0.882	-.0002286	.0001965
_cons	9.056574	.1620871	55.87	0.000	8.738886	9.374262

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity sd(_cons)	2.195227	.064588	2.072217	2.325538
sd(Residual)	1.825188	.0421369	1.744442	1.909672

```

143 .
144 .
145 .
146 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4dobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,720

Group variable: HNDID

	Number of groups =	1,412
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0332
	Largest FMI =	0.3142
DF adjustment:	Large sample	DF: min = 48.69
		avg = 1.77e+11
		max = 3.58e+12
Model F test:	Equal FMI	F(17,38998.0) = 33.63
		Prob > F = 0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2603412	.047836	5.44	0.000	.1665843 .3540981
w1Agecent48	.1349568	.0135208	9.98	0.000	.1084564 .1614571
c.timew1w3#c.w1Agecent48	.0081332	.0026943	3.02	0.003	.0028525 .013414
timew1w3	0 (omitted)				
Sex					
Men	-.9917571	.253994	-3.90	0.000	-1.489576 -.4939379
Sex#c.timew1w3					
Men	.0845253	.0506289	1.67	0.095	-.0147055 .1837561
timew1w3	0 (omitted)				
Race					
AfrAm	1.143564	.2545009	4.49	0.000	.6447489 1.64238
Race#c.timew1w3					
AfrAm	.1701513	.0510937	3.33	0.001	.0700094 .2702931
timew1w3	0 (omitted)				
PovStat					
Below	1.197491	.2594533	4.62	0.000	.6889724 1.706011
PovStat#c.timew1w3					
Below	.0590823	.0507106	1.17	0.244	-.0403087 .1584733
timew1w3	0 (omitted)				
invmillsmms	-.0176315	.0081098	-2.17	0.030	-.0335265 -.0017365
c.timew1w3#c.invmillsmms	-.0002151	.0014802	-0.15	0.884	-.0031163 .002686
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	.054066	.1530712	0.35	0.724	-.2467985 .3549306
c.timew1w3#c.zw1w3HCYTRAJ	.0492949	.0277342	1.78	0.076	-.0050632 .103653
w1B12center522	-.000691	.0005972	-1.16	0.249	-.001868 .0004861
c.timew1w3#c.w1B12center522	.0000509	.0001132	0.45	0.653	-.0001709 .0002728
c.zw1w3HCYTRAJ#c.w1B12center522	.000531	.0008371	0.63	0.529	-.0011516 .0022135
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0001423	.0001375	-1.04	0.301	-.0004118 .0001272

	<u>_cons</u>	5.690762	.2350458	24.21	0.000	5.230054	6.15147
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.1718638	.111518	.0481794	.6130658	
sd(_cons)	3.561009	.0959014	3.377921	3.754022	
sd(Residual)	2.873464	.0947389	2.693652	3.06528	

147 .
 148 .
 149 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,460
Group variable: HNDID	Number of groups = 1,392
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
	Average RVI = 0.0072
	Largest FMI = 0.0941
DF adjustment: Large sample	DF: min = 489.53
	avg = 8.11e+10
	max = 1.18e+12
Model F test: Equal FMI	F(17, 782129.9) = 10.75
	Prob > F = 0.0000

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0505478	.0249772	-2.02	0.043	-.0995023 - .0015934
	w1Agecent48	-.0241906	.0064436	-3.75	0.000	-.0368198 -.0115614
	c.timew1w3#c.w1Agecent48	-.0029165	.0013925	-2.09	0.036	-.0056457 -.0001873
	timew1w3	0 (omitted)				
	Sex					
	Men	-.211029	.1215285	-1.74	0.082	-.4492204 .0271625
	Sex#c.timew1w3					
	Men	-.0021827	.0262101	-0.08	0.934	-.0535536 .0491882
	timew1w3	0 (omitted)				
	Race					
	AfrAm	-.9967879	.1219548	-8.17	0.000	-1.235815 -.7577609
	Race#c.timew1w3					
	AfrAm	.0232532	.0264611	0.88	0.380	-.0286095 .0751159
	timew1w3	0 (omitted)				
	PovStat					
	Below	-.4043101	.1235545	-3.27	0.001	-.6464724 -.1621478

PovStat#c.timew1w3 Below	- .054313	.026179	-2.07	0.038	- .1056229	- .0030031
timew1w3 invmillsmms	0 (omitted)	.0037199	0.46	0.646	- .0055843	.0089976
c.timew1w3#c.invmillsmms	- .0005382	.0007299	-0.74	0.461	- .0019688	.0008924
timew1w3 zw1w3HCYTRAJ	0 (omitted)	.0709419	-0.28	0.782	- .1587326	.1193891
c.timew1w3#c.zw1w3HCYTRAJ	- .019895	.01492	-1.33	0.182	- .0491384	.0093485
w1B12center522	.0004578	.0002692	1.70	0.089	- .00007	.0009856
c.timew1w3#c.w1B12center522	.0000405	.0000588	0.69	0.491	- .0000747	.0001558
c.zw1w3HCYTRAJ#c.w1B12center522	.0001104	.0003555	0.31	0.756	- .000588	.0008089
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	- .0000238	.0000714	-0.33	0.739	- .0001638	.0001162
_cons	7.582045	.1120896	67.64	0.000	7.362353	7.801736

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1114192	.039776	.055346	.2243023
sd(_cons)	1.545865	.0471701	1.456124	1.641138
sd(Residual)	1.368942	.0467464	1.28032	1.463699

```

150 .
151 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4fobs==1 || HNDID: timew1w3
convergence not achieved
model did not converge on m=3
r(498);

end of do-file

r(498);

152 . do "C:\Users\baydounm\AppData\Local\Temp\STD3e90_000000.tmp"

153 .
154 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4fobs==1 || HNDID:

Multiple-imputation estimates
Mixed-effects ML regression

```

Imputations = 5
Number of obs = 2,741

Group variable: HNDID Number of groups = 1,414
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0077
 Largest FMI = 0.1004
 DF adjustment: Large sample DF: min = 431.81
 avg = 4.05e+10
 max = 5.12e+11
 Model F test: Equal FMI F(17,749971.6) = 10.61
 Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0540941	.0496879	1.09	0.276	-.0432923 .1514805
w1Agecent48	-.0908065	.0153462	-5.92	0.000	-.1208845 -.0607285
c.timew1w3#c.w1Agecent48	-.0030468	.0027792	-1.10	0.273	-.0084938 .0024003
timew1w3	0 (omitted)				
Sex					
Men	1.064389	.2876615	3.70	0.000	.5005831 1.628196
Sex#c.timew1w3					
Men	.0018241	.0522297	0.03	0.972	-.1005441 .1041924
timew1w3	0 (omitted)				
Race					
AfrAm	-2.103654	.2886776	-7.29	0.000	-2.669452 -1.537857
Race#c.timew1w3					
AfrAm	-.0341164	.0529727	-0.64	0.520	-.137941 .0697082
timew1w3	0 (omitted)				
PovStat					
Below	-1.509465	.2949437	-5.12	0.000	-2.087544 -.9313857
PovStat#c.timew1w3					
Below	.0288021	.0525078	0.55	0.583	-.0741114 .1317156
timew1w3	0 (omitted)				
invmillsmms	.0110251	.0093469	1.18	0.238	-.0072945 .0293446
c.timew1w3#c.invmillsmms	-.0012493	.0015718	-0.79	0.427	-.0043299 .0018314
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0826259	.1664048	-0.50	0.620	-.4088195 .2435677
c.timew1w3#c.zw1w3HCYTRAJ	-.0418399	.0289938	-1.44	0.149	-.0986667 .014987
w1B12center522	.0015045	.0006266	2.40	0.016	.0002764 .0027327
c.timew1w3#c.w1B12center522	-.0000437	.000116	-0.38	0.706	-.0002711 .0001837
c.zw1w3HCYTRAJ#c.w1B12center522	.000171	.0008299	0.21	0.837	-.0014602 .0018021
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000672	.0001418	-0.47	0.635	-.0003451 .0002107

	<u>_cons</u>	20.37011	.2648606	76.91	0.000	19.851	20.88923
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity				
sd(_cons)	4.210973	.1031386	4.013601	4.418052
sd(Residual)	3.045524	.0589992	2.932055	3.163384

155 .
156 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,686
Group variable: HNDID		
Number of groups	=	1,412
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0048
Largest FMI	=	0.0830
DF adjustment: Large sample	DF:	min = 624.15 avg = 3.22e+11 max = 6.53e+12
Model F test: Equal FMI	F(17, 1.8e+06)	= 7.29
	Prob > F	= 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0221581	.0197486	1.12	0.262	-.0165484	.0608646
w1Agecent48	-.0181954	.0062209	-2.92	0.003	-.0303882	-.0060026
c.timew1w3##c.w1Agecent48	-.0035074	.0011023	-3.18	0.001	-.0056679	-.0013469
timew1w3	0	(omitted)				
Sex						
Men	.2381039	.116757	2.04	0.041	.0092644	.4669434
Sex#c.timew1w3						
Men	-.0320488	.0207918	-1.54	0.123	-.0728	.0087024
timew1w3	0	(omitted)				
Race						
AfrAm	-.7377474	.1171956	-6.30	0.000	-.9674469	-.5080479
Race#c.timew1w3						
AfrAm	-.0132996	.0210015	-0.63	0.527	-.0544618	.0278625
timew1w3	0	(omitted)				
PovStat						
Below	-.4758361	.119443	-3.98	0.000	-.70994	-.2417321
PovStat#c.timew1w3						

	Below	- .0227569	.0208389	-1.09	0.275	- .0636004	.0180865
	timew1w3 invmillsmms	0 .0058101	(omitted) .0037702	1.54	0.123	- .0015793	.0131996
	c.timew1w3#c.invmillsmms	- .0004998	.0006153	-0.81	0.417	- .0017057	.0007061
	timew1w3 zw1w3HCYTRAJ	0 -.049726	(omitted) .0668427	-0.74	0.457	- .1807358	.0812838
	c.timew1w3#c.zw1w3HCYTRAJ	-.0166153	.0116111	-1.43	0.152	- .0393728	.0061421
	w1B12center522	.0004237	.0002645	1.60	0.110	- .0000958	.0009431
	c.timew1w3#c.w1B12center522	-.0000278	.0000461	-0.60	0.546	- .0001182	.0000626
	c.zw1w3HCYTRAJ#c.w1B12center522	.0001283	.0003196	0.40	0.688	- .0004981	.0007548
	c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000136	.0000562	-0.24	0.809	- .0001239	.0000966
	_cons	7.840877	.1077998	72.74	0.000	7.629594	8.052161

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0876019	.0395806	.0361344
sd(_cons)	1.765047	.0420481	1.684528
sd(Residual)	1.154893	.0393177	1.080347
			1.234584

157 .

158 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,673
Group variable: HNDID	Number of groups = 1,413
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0038
	Largest FMI = 0.0307
DF adjustment: Large sample	DF: min = 4,357.57
	avg = 3.40e+11
	max = 5.38e+12
Model F test: Equal FMI	F(17, 2.8e+06) = 11.30
	Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0007347	.0205653	0.04	0.972	-.0395725 .041042
w1Agecent48	-.0245866	.006082	-4.04	0.000	-.0365071 -.0126661
c.timew1w3#c.w1Agecent48	-.0012088	.0011459	-1.05	0.291	-.0034548 .0010372
timew1w3	0 (omitted)				
Sex					
Men	-.0460537	.1143863	-0.40	0.687	-.2702468 .1781394
Sex#c.timew1w3					
Men	-.0155092	.0216595	-0.72	0.474	-.0579611 .0269426
timew1w3	0 (omitted)				
Race					
AfrAm	-1.10005	.1144932	-9.61	0.000	-1.324453 -.8756474
Race#c.timew1w3					
AfrAm	-.0112745	.0218313	-0.52	0.606	-.054063 .031514
timew1w3	0 (omitted)				
PovStat					
Below	-.5544543	.1168941	-4.74	0.000	-.7835625 -.3253461
PovStat#c.timew1w3					
Below	.0024635	.0216456	0.11	0.909	-.0399611 .0448882
timew1w3	0 (omitted)				
invmillsmms	.0062491	.0036846	1.70	0.090	-.0009726 .0134709
c.timew1w3#c.invmillsmms	-.000484	.0006379	-0.76	0.448	-.0017343 .0007663
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0664054	.0659847	-1.01	0.314	-.1957385 .0629278
c.timew1w3#c.zw1w3HCYTRAJ	-.0011716	.0121882	-0.10	0.923	-.0250616 .0227184
w1B12center522	.0005992	.0002544	2.36	0.018	.0001007 .0010978
c.timew1w3#c.w1B12center522	-.0000322	.0000493	-0.65	0.513	-.0001289 .0000644
c.zw1w3HCYTRAJ#c.w1B12center522	.0002333	.0003205	0.73	0.467	-.0003951 .0008618
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000433	.0000594	-0.73	0.465	-.0001597 .000073
_cons	6.519713	.1054575	61.82	0.000	6.31302 6.726406

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	4.13e-07	.0001311	1.7e-277	9.9e+263
sd(_cons)	1.641805	.0419062	1.561691	1.726029
sd(Residual)	1.240532	.0247797	1.192903	1.290063

```

159 .
160 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,736
Number of groups = 1,414
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0072
Largest FMI = 0.0678
DF: min = 923.74
        avg = 1.08e+12
        max = 1.71e+13
F( 17, 779586.1) = 5.16
Prob > F = 0.0000

```

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0222568	.0157556	-1.41	0.158	-.0531372 .0086236
	w1Agecent48	-.0059379	.0034792	-1.71	0.088	-.012757 .0008811
	c.timew1w3##c.w1Agecent48	-.0018627	.000884	-2.11	0.035	-.0035953 -.00013
	timew1w3	0	(omitted)			
	Sex					
	Men	.1114478	.06535	1.71	0.088	-.0166359 .2395315
	Sex##c.timew1w3					
	Men	.0069071	.0166366	0.42	0.678	-.0257001 .0395144
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.406017	.0653994	-6.21	0.000	-.5341974 -.2778365
	Race##c.timew1w3					
	AfrAm	.0170421	.0167682	1.02	0.309	-.015823 .0499072
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.0723937	.0670757	-1.08	0.280	-.2038597 .0590723
	PovStat##c.timew1w3					
	Below	-.0108283	.0167	-0.65	0.517	-.0435598 .0219031
	timew1w3	0	(omitted)			
	invmillsmms	.0003263	.0021357	0.15	0.879	-.0038597 .0045123
	c.timew1w3##c.invmillsmms	-.0001414	.0004981	-0.28	0.776	-.0011177 .0008348
	timew1w3	0	(omitted)			
	zw1w3HCYTRAJ	-.033223	.0381677	-0.87	0.384	-.1080415 .0415955
	c.timew1w3##c.zw1w3HCYTRAJ	-.0117219	.0091772	-1.28	0.202	-.0297089 .0062651

w1B12center522	.0000404	.0001443	0.28	0.779	-.0002425	.0003233
c.timew1w3#c.w1B12center522	-4.77e-06	.000037	-0.13	0.897	-.0000773	.0000677
c.zw1w3HCYTRAJ#c.w1B12center522	.0002236	.0001933	1.16	0.248	-.0001557	.0006029
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000364	.0000452	-0.80	0.421	-.000125	.0000523
_cons	9.03663	.0600921	150.38	0.000	8.918851	9.154409

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0375301	.0394672	.004778 .2947923
sd(_cons)	.6797551	.0301008	.6232462 .7413875
sd(Residual)	.9696186	.0251899	.9214832 1.020268

161 .
162 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,670
Group variable: HNDID	Number of groups = 1,397
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0079
	Largest FMI = 0.0426
	DF: min = 2,295.58
	avg = 6.92e+10
	max = 7.40e+11
Model F test: Equal FMI	F(17,639830.1) = 21.95
	Prob > F = 0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0024499	.0041248	0.59	0.553	-.0056345 .0105343
w1Agecent48	.0114177	.0010617	10.75	0.000	.0093368 .0134987
c.timew1w3#c.w1Agecent48	.0006469	.0002332	2.77	0.006	.0001898 .0011041
timew1w3	0 (omitted)				
Sex					
Men	.091631	.0199315	4.60	0.000	.0525661 .130696
Sex#c.timew1w3					
Men	.0008376	.004392	0.19	0.849	-.0077706 .0094457
timew1w3	0 (omitted)				
Race					
AfrAm	.185123	.019904	9.30	0.000	.1461117 .2241342

Race#c.timew1w3 AfrAm	- .0005675	.004416	-0.13	0.898	- .0092228	.0080877
timew1w3	0	(omitted)				
PovStat Below	.088995	.0204225	4.36	0.000	.0489676	.1290223
PovStat#c.timew1w3 Below	.0047355	.0044036	1.08	0.282	- .0038953	.0133663
timew1w3 invmillsmms	0	(omitted)				
	.0002767	.000637	0.43	0.664	- .0009717	.0015251
c.timew1w3#c.invmillsmms	- .0001392	.0001287	-1.08	0.279	- .0003914	.0001129
timew1w3 zw1w3HCYTRAJ	0	(omitted)				
	.0301828	.0116843	2.58	0.010	.0072817	.0530839
c.timew1w3#c.zw1w3HCYTRAJ	.0001104	.0024673	0.04	0.964	- .0047255	.0049463
w1B12center522	-2.34e-06	.0000442	-0.05	0.958	- .0000891	.0000844
c.timew1w3#c.w1B12center522	.0000102	9.97e-06	1.02	0.306	-9.34e-06	.0000298
c.zw1w3HCYTRAJ#c.w1B12center522	- .0000174	.0000575	-0.30	0.763	- .0001301	.0000954
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	6.18e-06	.0000121	0.51	0.609	- .0000175	.0000299
_cons	3.273584	.0182081	179.79	0.000	3.237897	3.309272

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0253555	.0055393	.0165239
sd(_cons)	.2649735	.0078777	.2499747
sd(Residual)	.2355745	.0078397	.2206994

```

163 .
164 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,578
Number of groups = 1,383
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0122
Largest FMI = 0.0756
DF: min = 747.61
        avg = 4.37e+10
        max = 7.41e+11
F( 17, 334494.7) = 24.84
Prob > F = 0.0000

```

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.004491	.0060614	0.74	0.459	-.0073891 .0163711
w1Agecent48	.0181305	.0017986	10.08	0.000	.0146053 .0216557
c.timew1w3#c.w1Agecent48	.0005601	.0003453	1.62	0.105	-.0001167 .001237
timew1w3	0	(omitted)			
Sex					
Men	.0571691	.0337564	1.69	0.090	-.0089922 .1233303
Sex#c.timew1w3					
Men	-.0038303	.006505	-0.59	0.556	-.0165799 .0089193
timew1w3	0	(omitted)			
Race					
AfrAm	.4029147	.033736	11.94	0.000	.3367933 .4690361
Race#c.timew1w3					
AfrAm	.0020796	.0065564	0.32	0.751	-.0107708 .01493
timew1w3	0	(omitted)			
PovStat					
Below	.2381695	.0345974	6.88	0.000	.1703599 .3059791
PovStat#c.timew1w3					
Below	.0049066	.0065593	0.75	0.454	-.0079494 .0177626
timew1w3	0	(omitted)			
invmillsmms	-.0025968	.0010787	-2.41	0.016	-.0047111 -.0004825
c.timew1w3#c.invmillsmms	-.000551	.0004955	-1.11	0.266	-.0015222 .0004201
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0220694	.0198414	1.11	0.266	-.0168223 .060961
c.timew1w3#c.zw1w3HCYTRAJ	.0088465	.0036405	2.43	0.015	.00171 .015983
w1B12center522	-.0000132	.000076	-0.17	0.862	-.0001622 .0001358
c.timew1w3#c.w1B12center522	6.44e-06	.0000149	0.43	0.665	-.0000228 .0000356
c.zw1w3HCYTRAJ#c.w1B12center522	-.0000673	.0000965	-0.70	0.486	-.0002566 .000122
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	.0000177	.0000183	0.97	0.332	-.0000181 .0000536
_cons	4.225976	.030867	136.91	0.000	4.165478 4.286474

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.68e-06	.0004402	3.8e-229	7.4e+216
sd(_cons)	.4801713	.0130829	.455202	.5065103
sd(Residual)	.3610908	.007696	.3463177	.3764941

```

165 .
166 .
167 . save, replace
      file finaldata_imputed_FINAL.dta saved

168 .
169 .
170 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
171 .
172 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =          5
Number of obs    =     2,621

Group variable: HNDID
Number of groups =     1,398
Obs per group:
               min =          1
               avg =        1.9
               max =          2
               Average RVI =       .
               Largest FMI =       .
DF adjustment: Large sample
DF:           min =        0.00
               avg =       .
               max =       .
Model F test: Equal FMI
F( 31,53616.0) =      33.89
Prob > F        = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0865812	.0492069	1.76	0.079	-.0098886	.1830511
w1Agecent48	-.0176712	.0048019	-3.68	0.000	-.0270834	-.0082591
c.timew1w3#c.w1Agecent48	-.0031244	.0011664	-2.68	0.007	-.0054106	-.0008382
timew1w3	0 (omitted)					
Sex						
Men	-.348815	.0898365	-3.88	0.000	-.5248917	-.1727384
Sex#c.timew1w3						
Men	.0220207	.02207	1.00	0.318	-.021237	.0652784
timew1w3	0 (omitted)					
Race						
AfrAm	-.2383918	.092669	-2.57	0.010	-.4200266	-.0567571
Race#c.timew1w3						
AfrAm	-.0128784	.0230768	-0.56	0.577	-.0581101	.0323532
timew1w3	0 (omitted)					
PovStat						
Below	-.0573933	.0935946	-0.61	0.540	-.2408354	.1260488
PovStat#c.timew1w3						
Below	-.0326888	.022576	-1.45	0.148	-.076937	.0115594
timew1w3	0 (omitted)					

w1edubr							
2	.5179666	.1866614	2.77	0.006	.1520576	.8838755	
3	.6942764	.2044028	3.40	0.001	.2934851	1.095068	
w1edubr#c.timew1w3							
2	-.0686628	.0467475	-1.47	0.142	-.1603032	.0229775	
3	-.0657731	.0505857	-1.30	0.194	-.1649586	.0334124	
timew1w3							
w1WRATtotalcent42		0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	.1463304	.0063707	22.97	0.000	.1338426	.1588182	
timew1w3							
1.w1smoke		0 (omitted)					
	.0126229	.1013112	0.12	0.901	-.1865807	.2118264	
w1smoke#c.timew1w3							
1	-.0527142	.0244726	-2.15	0.031	-.100681	-.0047474	
timew1w3							
1.w1currdrugs		0 (omitted)					
	-.0863101	.133561	-0.65	0.520	-.3527495	.1801293	
w1currdrugs#c.timew1w3							
1	.0173822	.0304793	0.57	0.569	-.0425678	.0773323	
timew1w3							
w1hei2010_total_scorecent43		0 (omitted)					
	-.0042293	.0045797	-0.92	0.360	-.013419	.0049605	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0005997	.0011931	0.50	0.617	-.0017893	.0029887	
timew1w3							
w1BMIcon30		0 (omitted)					
	-.0052051	.0060259	-0.86	0.388	-.0170159	.0066056	
c.timew1w3#c.w1BMIcon30							
	-.0004784	.0014548	-0.33	0.742	-.0033298	.002373	
timew1w3							
invmillsmms		0 (omitted)					
	.0076667	.0027856	2.75	0.006	.002207	.0131264	
c.timew1w3#c.invmillsmms							
	-.0018573	.0006098	-3.05	0.002	-.0030525	-.0006621	
timew1w3							
zw1w3HCYTRAJ		0 (omitted)					
	.0022268	.0515127	0.04	0.966	-.0987662	.1032197	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0000927	.012471	0.01	0.994	-.0243516	.024537	
w1B12center522							
	.0001583	.0001978	0.80	0.423	-.0002293	.000546	
c.timew1w3#c.w1B12center522							
	-.0000721	.0000491	-1.47	0.143	-.0001684	.0000243	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0000732	.0002675	0.27	0.785	-.0004533	.0005996	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
	-.0000117	.0000639	-0.18	0.855	-.000137	.0001137	
_cons	27.47905	.1950294	140.90	0.000	27.0967	27.8614	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	3.47e-07	.	.	.
sd(_cons)	1.003644	.0428048	.9231537	1.091153
sd(Residual)	1.212642	.026553	1.1617	1.265819

173 .

174 .

175 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 //>
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations =	5
Number of obs	=	2,621
Group variable: HNDID	Number of groups =	1,398
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
DF adjustment: Large sample	Average RVI =	0.0371
	Largest FMI =	0.3341
	DF: min =	43.28
	avg =	4.53e+09
	max =	1.59e+11
Model F test: Equal FMI	F(31, 73378.2) =	30.25
	Prob > F =	0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.3609445	.3968973	0.91	0.363	-.4170284	1.138917
w1Agecent48	-.1550424	.0377137	-4.11	0.000	-.2289668	-.0811179
c.timew1w3##c.w1Agecent48	-.0237879	.0095023	-2.50	0.012	-.0424138	-.0051619
timew1w3	0	(omitted)				
Sex						
Men	-1.955421	.7048442	-2.77	0.006	-3.336895	-.5739472
Sex#c.timew1w3						
Men	.1229253	.1797137	0.68	0.494	-.2293229	.4751736
timew1w3	0	(omitted)				
Race						
AfrAm	-3.377353	.7261495	-4.65	0.000	-4.800618	-1.954088
Race#c.timew1w3						
AfrAm	.0515907	.1873809	0.28	0.783	-.3156793	.4188608
timew1w3	0	(omitted)				
PovStat						
Below	-.6713387	.7345663	-0.91	0.361	-2.111064	.7683871
PovStat#c.timew1w3						

	Below	-.2782232	.1836917	-1.51	0.130	-.638253	.0818065
	timew1w3	0	(omitted)				
	w1edubr						
	2	3.86047	1.457491	2.65	0.008	1.003691	6.717249
	3	5.942894	1.595101	3.73	0.000	2.815913	9.069875
	w1edubr#c.timew1w3						
	2	-.5367282	.3779038	-1.42	0.156	-1.277466	.2040094
	3	-.4077924	.4091218	-1.00	0.319	-1.209844	.3942592
	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.9567295	.0498514	19.19	0.000	.8590164	1.054443
	c.timew1w3#c.w1WRATtotalcent42	-.0321576	.014013	-2.29	0.022	-.0596303	-.0046849
	timew1w3	0	(omitted)				
	1.w1smoke	-.6025849	.7834721	-0.77	0.442	-2.140384	.9352147
	w1smoke#c.timew1w3						
	1	-.2782194	.1978823	-1.41	0.160	-.666062	.1096231
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.0912646	1.018582	-0.09	0.929	-2.109719	1.92719
	w1currdrugs#c.timew1w3						
	1	.0700264	.2516284	0.28	0.781	-.4259831	.566036
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0210673	.0346309	-0.61	0.544	-.0898639	.0477293
	c.timew1w3#c.w1hei2010_total_scorecent43	.0066162	.0099482	0.67	0.510	-.0134426	.026675
	timew1w3	0	(omitted)				
	w1BMIcon30	-.0458577	.0471001	-0.97	0.330	-.1381722	.0464567
	c.timew1w3#c.w1BMIcon30	-.003789	.0118365	-0.32	0.749	-.0269891	.0194111
	timew1w3	0	(omitted)				
	invmillsmms	.0427148	.0218522	1.95	0.051	-.0001147	.0855442
	c.timew1w3#c.invmillsmms						
		-.0099003	.0049709	-1.99	0.046	-.0196431	-.0001576
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.1020683	.3979036	0.26	0.798	-.6778089	.8819455
	c.timew1w3#c.zw1w3HCYTRAJ	-.0056465	.1010488	-0.06	0.955	-.2037036	.1924106
	w1B12center522	.0005335	.0015472	0.34	0.730	-.0024991	.0035661
	c.timew1w3#c.w1B12center522	-.0004732	.0004005	-1.18	0.237	-.0012585	.0003121
	c.zw1w3HCYTRAJ#c.w1B12center522	.0002846	.0019773	0.14	0.886	-.003591	.0041602
	c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-5.34e-06	.0005092	-0.01	0.992	-.0010033	.0009927
	_cons	75.41988	1.523658	49.50	0.000	72.43321	78.40655

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0002502	.0218162	1.48e-78	4.22e+70
sd(_cons)	7.402222	.3183578	6.803823	8.053249
sd(Residual)	9.886743	.2024949	9.497719	10.2917

176 .
 177 .
 178 .
 179 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
 Number of obs = 2,435
 Number of groups = 1,391
 Obs per group:
 min = 1
 avg = 1.8
 max = 2
 Average RVI = 0.0434
 Largest FMI = 0.4361
 DF: min = 25.77
 avg = 7693182.68
 max = 2.58e+08
 F(31, 54748.6) = 50.61
 Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.159088	.1545982	-7.50	0.000	-1.462104	-.8560713
w1Agecent48	-.1482212	.018704	-7.92	0.000	-.1848833	-.1115591
c.timew1w3#c.w1Agecent48	-.0064995	.0039999	-1.62	0.104	-.0143393	.0013403
timew1w3	0 (omitted)					
Sex						
Men	-2.18054	.3496865	-6.24	0.000	-2.865914	-1.495167
Sex#c.timew1w3						
Men	-.1789977	.0753749	-2.37	0.018	-.3267308	-.0312647
timew1w3	0 (omitted)					
Race						
AfrAm	-2.047921	.3600228	-5.69	0.000	-2.753569	-1.342272
Race#c.timew1w3						
AfrAm	.1021615	.0782665	1.31	0.192	-.0512571	.2555802
timew1w3	0 (omitted)					
PovStat						
Below	-.3648081	.362123	-1.01	0.314	-1.074561	.3449452

PovStat#c.timew1w3 Below		-.0484875	.0761698	-0.64	0.524	-.197779	.1008039
	timew1w3		0 (omitted)				
w1edubr 2		-.3581692	.7071918	-0.51	0.613	-1.74492	1.028582
3		1.933576	.7717283	2.51	0.012	.4203091	3.446842
w1edubr#c.timew1w3 2		.0881075	.1453231	0.61	0.544	-.1967439	.3729589
3		-.0615231	.1597931	-0.39	0.700	-.3747266	.2516803
timew1w3 w1WRATtotalcent42			0 (omitted)				
c.timew1w3#c.w1WRATtotalcent42		.239056	.0243552	9.82	0.000	.1913198	.2867922
timew1w3 1.w1smoke			0 (omitted)				
w1smoke#c.timew1w3 1		-.022812	.3821794	-0.06	0.952	-.7743927	.7287687
timew1w3 1.w1currdrugs			0 (omitted)				
w1currdrugs#c.timew1w3 1		-.5406294	.4494825	-1.20	0.229	-1.42213	.3408709
timew1w3 w1hei2010_total_scorecent43			0 (omitted)				
c.timew1w3#c.w1hei2010_total_scorecent43		.0251489	.0191527	1.31	0.201	-.014237	.0645348
timew1w3 w1BMIcon30			0 (omitted)				
c.timew1w3#c.w1BMIcon30		-.0003918	.0232555	-0.02	0.987	-.0459724	.0451887
timew1w3 invmillsmms			0 (omitted)				
c.timew1w3#c.invmillsmms		.0164192	.0103221	1.59	0.112	-.0038118	.0366502
timew1w3 zw1w3HCYTRAJ			0 (omitted)				
c.timew1w3#zw1w3HCYTRAJ		.530265	.1998453	2.65	0.008	.1385746	.9219553
timew1w3 w1B12center522			0 (omitted)				
c.timew1w3#w1B12center522		-.0581562	.0422351	-1.38	0.169	-.1409354	.024623
timew1w3 c.zw1w3HCYTRAJ#w1B12center522			0 (omitted)				
c.zw1w3HCYTRAJ#w1B12center522		.0007347	.0007991	0.92	0.359	-.000837	.0023064
timew1w3 c.zw1w3HCYTRAJ#w1B12center522			0 (omitted)				
c.timew1w3#zw1w3HCYTRAJ#w1B12center522		-.0001081	.0001681	-0.64	0.520	-.0004375	.0002214
timew1w3 c.zw1w3HCYTRAJ#zw1w3HCYTRAJ#w1B12center522			0 (omitted)				
c.timew1w3#zw1w3HCYTRAJ#zw1w3HCYTRAJ#w1B12center522		.0002578	.0009835	0.26	0.793	-.0016698	.0021854
timew1w3 c.timew1w3#zw1w3HCYTRAJ#zw1w3HCYTRAJ#w1B12center522			0 (omitted)				
c.timew1w3#zw1w3HCYTRAJ#zw1w3HCYTRAJ#zw1w3HCYTRAJ#w1B12center522		-.0000126	.0002095	-0.06	0.952	-.0004231	.000398
	_cons	26.58303	.736484	36.09	0.000	25.13932	28.02674

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3714028	.0968125	.2228181	.6190701
sd(_cons)	4.39039	.1303466	4.142206	4.653445
sd(Residual)	3.651994	.1309974	3.404057	3.917989

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182 .

183 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

	Imputations =	5
Number of obs	=	2,313
Group variable: HNDID	Number of groups =	1,365
	Obs per group:	
	min =	1
	avg =	1.7
	max =	2
	Average RVI =	0.0698
DF adjustment: Large sample	Largest FMI =	0.3428
	DF: min =	41.18
	avg =	325,835.84
	max =	7783484.66
Model F test: Equal FMI	F(31, 22202.3) =	31.60
	Prob > F =	0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3424131	.0749205	-4.57	0.000	-.4892657 -.1955605
		-.0786408	.0089512	-8.79	0.000	-.0961852 -.0610964
c.timew1w3#c.w1Agecent48		-.0036753	.0019721	-1.86	0.062	-.0075407 .0001902
timew1w3		0	(omitted)			
Sex						
Men		-.9494628	.1679643	-5.65	0.000	-1.278668 -.6202573
Sex#c.timew1w3						
Men		-.0460098	.0367054	-1.25	0.210	-.1179521 .0259325
timew1w3		0	(omitted)			
Race						
AfrAm		-1.218532	.1726633	-7.06	0.000	-1.556965 -.8800984
Race#c.timew1w3						
AfrAm		.0173013	.0379221	0.46	0.648	-.057027 .0916297
timew1w3		0	(omitted)			
PovStat						
Below		-.0842318	.1744248	-0.48	0.629	-.4261211 .2576576

PovStat#c.timew1w3 Below		-.0332357	.0370287	-0.90	0.369	-.1058112	.0393398
	timew1w3	0	(omitted)				
w1edubr 2 3		-.1612109 .5512707	.339801 .3688561	-0.47 1.49	0.635 0.135	-.8274499 -.1717775	.5050281 1.274319
w1edubr#c.timew1w3 2 3		-.0014064 .0065991	.0704157 .0773664	-0.02 0.09	0.984 0.932	-.1394426 -.1450442	.1366297 .1582424
w1WRATtotalcent42	timew1w3	0	(omitted)				
c.timew1w3#c.w1WRATtotalcent42		.1011144	.0117816	8.58	0.000	.0780199	.1242089
	timew1w3	0	(omitted)				
1.w1smoke		-.009514	.197636	-0.05	0.962	-.4024174	.3833895
w1smoke#c.timew1w3 1		-.02492	.0454316	-0.55	0.585	-.1153544	.0655144
timew1w3	0	(omitted)					
1.w1currdrugs		-.2429796	.2316834	-1.05	0.296	-.7005533	.2145941
w1currdrugs#c.timew1w3 1		-.0283723	.0520876	-0.54	0.587	-.1316081	.0748635
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0086558	.0087747	0.99	0.330	-.0090626	.0263743
c.timew1w3#c.w1hei2010_total_scorecent43		-.0006108	.0019747	-0.31	0.758	-.0045351	.0033135
timew1w3	0	(omitted)					
w1BMIcon30		.0207673	.0111963	1.85	0.064	-.0011783	.042713
c.timew1w3#c.w1BMIcon30		-.0018794	.0024253	-0.77	0.438	-.0066332	.0028744
timew1w3	0	(omitted)					
invmillsmms		.0073429	.0048961	1.50	0.134	-.0022533	.0169392
c.timew1w3#c.invmillsmms		-.0004679	.000943	-0.50	0.620	-.0023162	.0013803
timew1w3	0	(omitted)					
zw1w3HCYTRAJ		.3551585	.0988285	3.59	0.000	.1614338	.5488832
c.timew1w3#c.zw1w3HCYTRAJ		-.0307247	.0205325	-1.50	0.135	-.0709701	.0095207
w1B12center522		.0001428	.0003791	0.38	0.707	-.0006014	.0008869
c.timew1w3#c.w1B12center522		.0000693	.0000823	0.84	0.400	-.000092	.0002307
c.zw1w3HCYTRAJ#c.w1B12center522		.0003688	.0005052	0.73	0.465	-.0006222	.0013598
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522		.000012	.0001059	0.11	0.910	-.0001957	.0002197
_cons		8.43426	.3573957	23.60	0.000	7.733566	9.134953

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0768823	.108672	.004815	1.227606
sd(_cons)	2.000263	.0636559	1.87931	2.129001
sd(Residual)	1.804445	.0614762	1.687888	1.92905

184 .
 185 .
 186 .
 187 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
 Number of obs = 2,720
 Number of groups = 1,412
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0514
 Largest FMI = 0.3117
 DF: min = 49.44
 avg = 1.52e+07
 max = 5.23e+08
 F(31, 39017.8) = 27.93
 Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4424809	.109015	4.06	0.000	.2288127	.6561491
w1Agecent48	.1221401	.0131221	9.31	0.000	.0964186	.1478617
c.timew1w3#c.w1Agecent48	.0090391	.0027609	3.27	0.001	.0036276	.0144507
timew1w3	0 (omitted)					
Sex Men	-1.050046	.2458246	-4.27	0.000	-1.531864	-.568229
Sex#c.timew1w3 Men	.0573901	.0517637	1.11	0.268	-.0440653	.1588456
timew1w3	0 (omitted)					
Race AfrAm	.5129373	.2515479	2.04	0.041	.0199058	1.005969
Race#c.timew1w3 AfrAm	.1429272	.0536508	2.66	0.008	.0377711	.2480833
timew1w3	0 (omitted)					
PovStat Below	.3673895	.2560109	1.44	0.151	-.1343845	.8691635

PovStat#c.timew1w3 Below		.0271487	.0529324	0.51	0.608	-.076597	.1308944
	timew1w3	0	(omitted)				
w1edubr 2 3		-.6447888 -1.587119	.5057926 .5538766	-1.27 -2.87	0.202 0.004	-1.636257 -2.673022	.3466797 -.5012152
w1edubr#c.timew1w3 2 3		-.164325 -.131678	.1033511 .1129653	-1.59 -1.17	0.112 0.244	-.3668932 -.3530873	.0382432 .0897313
timew1w3 w1WRATtotalcent42		0	(omitted)				
c.timew1w3#c.w1WRATtotalcent42		-.1602664	.0174753	-9.17	0.000	-.1945341	-.1259987
c.timew1w3#c.timew1w3 1.w1smoke		-.0044749	.0036013	-1.24	0.214	-.0115333	.0025836
timew1w3 w1smoke#c.timew1w3 1		.409197	.2714843	1.51	0.133	-.1244542	.9428482
timew1w3 1.w1currdrugs		-.0503784	.0579512	-0.87	0.385	-.1639754	.0632187
w1currdrugs#c.timew1w3 1		-.2965419	.3720241	-0.80	0.429	-1.043984	.4509
timew1w3 w1hei2010_total_scorecent43		.1336563	.0711532	1.88	0.061	-.0060849	.2733975
c.timew1w3#c.w1hei2010_total_scorecent43		-.0064466	.0115995	-0.56	0.580	-.029498	.0166049
c.timew1w3#c.timew1w3 w1BMIcon30		-.0036012	.0026479	-1.36	0.176	-.0088334	.001631
timew1w3 c.timew1w3#c.w1BMIcon30		.009543	.016434	0.58	0.561	-.0226685	.0417546
timew1w3 invmillsmms		-.0047752	.0034482	-1.38	0.166	-.0115336	.0019833
c.timew1w3#c.invmillsmms		-.016209	.00766	-2.12	0.034	-.0312222	-.0011957
timew1w3 zw1w3HCYTRAJ		.000106	.0014796	0.07	0.943	-.0027941	.003006
c.timew1w3#zw1w3HCYTRAJ		-.0070209	.1438244	-0.05	0.961	-.2895857	.2755439
w1B12center522		.0490708	.0275727	1.78	0.075	-.0049709	.1031126
c.timew1w3#c.w1B12center522		-.000205	.00057	-0.36	0.719	-.0013272	.0009173
c.timew1w3#c.w1B12center522		.0000584	.0001157	0.50	0.614	-.0001685	.0002854
c.zw1w3HCYTRAJ#c.w1B12center522		.0006024	.0007732	0.78	0.439	-.000941	.0021457
c.timew1w3#zw1w3HCYTRAJ#c.w1B12center522		-.0001461	.0001372	-1.06	0.287	-.0004151	.0001229
_cons		7.357111	.5288776	13.91	0.000	6.320303	8.39392

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	7.49e-06	.0010658	4.9e-127	1.2e+116
sd(_cons)	3.15821	.0921111	2.982738	3.344005
sd(Residual)	2.924407	.0579703	2.812965	3.040264

188 .
189 .
190 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,460

Group variable: HNDID

Number of groups = 1,392
Obs per group:
min = 1
avg = 1.8
max = 2
Average RVI = 0.0228
Largest FMI = 0.2028

DF adjustment: Large sample

DF: min = 112.27
avg = 1.50e+07
max = 4.37e+08

Model F test: Equal FMI

F(31,187131.4) = 13.12
Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0407786	.0573592	-0.71	0.477	-.1532066 .0716494
w1Agecent48	-.0155595	.0062839	-2.48	0.013	-.0278758 -.0032432
c.timew1w3#c.w1Agecent48	-.0029457	.0014157	-2.08	0.037	-.0057204 -.000171
timew1w3	0	(omitted)			
Sex					
Men	-.2856734	.1191839	-2.40	0.017	-.5192709 -.052076
Sex#c.timew1w3					
Men	.0022205	.0267659	0.08	0.934	-.0502399 .0546808
timew1w3	0	(omitted)			
Race					
AfrAm	-.7019764	.1226612	-5.72	0.000	-.9423888 -.461564
Race#c.timew1w3					
AfrAm	.0374305	.0277534	1.35	0.177	-.0169652 .0918261
timew1w3	0	(omitted)			
PovStat					
Below	-.1162219	.1234809	-0.94	0.347	-.3582403 .1257964
PovStat#c.timew1w3					

	Below	-.0437607	.0274053	-1.60	0.110	-.0974744	.0099529
	timew1w3	0	(omitted)				
	w1edubr						
	2	.3626857	.245976	1.47	0.140	-.1194299	.8448014
	3	.5001549	.2678763	1.87	0.062	-.0249215	1.025231
	w1edubr#c.timew1w3						
	2	-.0059212	.0545914	-0.11	0.914	-.112924	.1010815
	3	-.0254858	.0591696	-0.43	0.667	-.1414583	.0904867
	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.0755715	.0084012	9.00	0.000	.0591052	.0920378
	c.timew1w3#c.w1WRATtotalcent42	.0032818	.0019015	1.73	0.084	-.000445	.0070087
	timew1w3	0	(omitted)				
	1.w1smoke	-.1700233	.1387824	-1.23	0.223	-.4445292	.1044827
	w1smoke#c.timew1w3						
	1	-.0201965	.0299954	-0.67	0.501	-.0790025	.0386095
	timew1w3	0	(omitted)				
	1.w1currdrugs	.2848627	.1542489	1.85	0.065	-.0175372	.5872625
	w1currdrugs#c.timew1w3						
	1	-.0282186	.0353056	-0.80	0.424	-.0974225	.0409854
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0052704	.0056632	-0.93	0.354	-.016491	.0059501
	c.timew1w3#c.w1hei2010_total_scorecent43	.0000424	.0012438	0.03	0.973	-.0023955	.0024804
	timew1w3	0	(omitted)				
	w1BMIcon30	-.0234176	.0080503	-2.91	0.004	-.0391969	-.0076383
	c.timew1w3#c.w1BMIcon30						
	timew1w3	0	(omitted)				
	invmillsmms	.0016476	.0035432	0.46	0.642	-.0052971	.0085922
	c.timew1w3#c.invmillsmms						
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0042706	.0671044	0.06	0.949	-.1272525	.1357936
	c.timew1w3#c.zw1w3HCYTRAJ	-.0203255	.0147494	-1.38	0.168	-.0492338	.0085828
	w1B12center522	.0003164	.0002646	1.20	0.232	-.0002024	.0008353
	c.timew1w3#c.w1B12center522	.0000333	.0000596	0.56	0.576	-.0000835	.0001501
	c.zw1w3HCYTRAJ#c.w1B12center522	.0000779	.0003262	0.24	0.811	-.0005616	.0007174
	c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000237	.0000702	-0.34	0.735	-.0001612	.0001138
	_cons	6.90097	.2559142	26.97	0.000	6.399378	7.402563

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0981284	.0411283	.0431552	.2231292
sd(_cons)	1.393857	.0461819	1.306219	1.487376
sd(Residual)	1.374892	.044254	1.290835	1.464422

191 .
192 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4fobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,741

Number of groups = 1,414
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0526
Largest FMI = 0.2887

DF: min = 57.28
avg = 1.37e+07
max = 4.50e+08

F(31, 37288.2) = 12.18
Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0309779	.1150651	-0.27	0.788	-.2565867	.1946309
w1Agecent48	-.0850872	.014943	-5.69	0.000	-.1143763	-.0557981
c.timew1w3##c.w1Agecent48	-.0023465	.002857	-0.82	0.411	-.0079462	.0032533
timew1w3	0 (omitted)					
Sex						
Men	1.270275	.2797952	4.54	0.000	.7218838	1.818665
Sex#c.timew1w3						
Men	-.0042539	.0537714	-0.08	0.937	-.1096442	.1011364
timew1w3	0 (omitted)					
Race						
AfrAm	-1.391889	.2876889	-4.84	0.000	-1.955749	-.8280281
Race#c.timew1w3						
AfrAm	-.0305206	.0560177	-0.54	0.586	-.1403169	.0792757
timew1w3	0 (omitted)					
PovStat						
Below	-.5784771	.2935974	-1.97	0.049	-1.153934	-.0030205
PovStat#c.timew1w3						
Below	.0221475	.0553685	0.40	0.689	-.0863743	.1306692

	timew1w3	0 (omitted)					
w1edubr							
2	-.3347075	.5758103	-0.58	0.561	-1.463314	.7938984	
3	.923031	.6268164	1.47	0.141	-.3055701	2.151632	
w1edubr#c.timew1w3							
2	.0936791	.109804	0.85	0.394	-.1216683	.3090266	
3	.0544327	.120638	0.45	0.652	-.1821854	.2910508	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
	.1612709	.0194815	8.28	0.000	.1230875	.1994543	
c.timew1w3#c.w1WRATtotalcent42							
	.0023346	.0037419	0.62	0.533	-.0049996	.0096688	
timew1w3							
1.w1smoke	0 (omitted)						
	-.5262903	.3290246	-1.60	0.114	-1.181904	.1293238	
w1smoke#c.timew1w3							
1	.0352696	.0623375	0.57	0.572	-.0871963	.1577355	
timew1w3							
1.w1currdrugs	0 (omitted)						
	.2731575	.3883468	0.70	0.483	-.4958661	1.042181	
w1currdrugs#c.timew1w3							
1	-.0189216	.0716383	-0.26	0.792	-.1593801	.1215369	
timew1w3							
w1hei2010_total_scorecent43	0 (omitted)						
	.0241015	.0132144	1.82	0.073	-.002357	.0505601	
c.timew1w3#c.w1hei2010_total_scorecent43							
	-.0030398	.0025677	-1.18	0.237	-.008075	.0019954	
timew1w3							
w1BMIcon30	0 (omitted)						
	.0185137	.0189938	0.97	0.330	-.0187267	.0557542	
c.timew1w3#c.w1BMIcon30							
	.0026905	.0035886	0.75	0.453	-.0043433	.0097243	
timew1w3							
invmillsmms	0 (omitted)						
	.0085079	.0088877	0.96	0.338	-.0089118	.0259275	
c.timew1w3#c.invmillsmms							
	-.001372	.0015765	-0.87	0.384	-.0044618	.0017178	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
	-.0012297	.1568964	-0.01	0.994	-.3087451	.3062857	
c.timew1w3#c.zw1w3HCYTRAJ							
	-.0412972	.0290227	-1.42	0.155	-.0981807	.0155863	
w1B12center522							
	.0009259	.0006066	1.53	0.127	-.0002632	.002115	
c.timew1w3#c.w1B12center522							
	-3.02e-06	.0001188	-0.03	0.980	-.000236	.0002299	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0001234	.000773	0.16	0.873	-.0013926	.0016393	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
	-.0000782	.0001422	-0.55	0.582	-.0003569	.0002004	
_cons	19.41811	.6049448	32.10	0.000	18.23217	20.60406	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0871191	.2436795	.0003624	20.94103	
sd(_cons)	3.873227	.0994715	3.683092	4.073178	
sd(Residual)	3.03078	.0947277	2.850689	3.222249	

193 .
194 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,686

Number of groups = 1,412
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0707
Largest FMI = 0.4488

DF: min = 24.35
avg = 406,457.93
max = 1.02e+07

F(31, 21605.1) = 15.68
Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0363195	.0453442	0.80	0.423	-.0525557 .1251946
w1Agecent48	-.0084589	.0057642	-1.47	0.142	-.0197568 .0028389
c.timew1w3##c.w1Agecent48	-.0034848	.0011361	-3.07	0.002	-.0057116 -.001258
timew1w3	0 (omitted)				
Sex					
Men	.1991876	.1086716	1.83	0.067	-.0138088 .412184
Sex#c.timew1w3					
Men	-.0351923	.0213591	-1.65	0.099	-.0770554 .0066709
timew1w3	0 (omitted)				
Race					
AfrAm	-.2999121	.1125478	-2.66	0.008	-.5205402 -.079284
Race#c.timew1w3					
AfrAm	-.0099119	.022119	-0.45	0.654	-.0532645 .0334407
timew1w3	0 (omitted)				
PovStat					
Below	-.1218662	.1138401	-1.07	0.284	-.3450118 .1012794
PovStat#c.timew1w3					
Below	-.0213925	.0219748	-0.97	0.330	-.0644631 .0216781

	timew1w3	0 (omitted)					
w1edubr							
2	-.0942846	.2241074	-0.42	0.674	-.5335372	.344968	
3	.2009344	.2438531	0.82	0.410	-.2770433	.6789122	
w1edubr#c.timew1w3							
2	-.0013015	.0427893	-0.03	0.976	-.085167	.082564	
3	-.0215462	.0469129	-0.46	0.646	-.1134959	.0704035	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
	.1126588	.0076128	14.80	0.000	.0977365	.127581	
c.timew1w3#c.w1WRATtotalcent42							
timew1w3	0 (omitted)						
1.w1smoke	.1712765	.1270044	1.35	0.181	-.0815381	.4240912	
w1smoke#c.timew1w3							
1	-.0140781	.0245976	-0.57	0.567	-.0623745	.0342183	
timew1w3	0 (omitted)						
1.w1currdrugs	.368143	.176489	2.09	0.048	.0041656	.7321203	
w1currdrugs#c.timew1w3							
1	-.0072049	.0299959	-0.24	0.810	-.0662292	.0518193	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0006307	.0048261	0.13	0.896	-.0088994	.0101609	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0 (omitted)						
w1BMIcon30	-.0111574	.0074515	-1.50	0.135	-.0257775	.0034627	
c.timew1w3#c.w1BMIcon30							
timew1w3	0 (omitted)						
invmillsmms	.0055246	.0034265	1.61	0.107	-.0011912	.0122405	
c.timew1w3#c.invmillsmms							
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0118122	.0612242	-0.19	0.847	-.1318259	.1082016	
c.timew1w3#c.zw1w3HCYTRAJ							
	-.0169571	.011683	-1.45	0.147	-.0398562	.0059419	
w1B12center522							
	.0002222	.0002454	0.91	0.366	-.00026	.0007043	
c.timew1w3#c.w1B12center522							
	-.0000298	.0000477	-0.62	0.532	-.0001232	.0000637	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0000135	.0002994	0.05	0.964	-.0005737	.0006007	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
	-.0000189	.0000574	-0.33	0.743	-.0001314	.0000937	
_cons	7.214471	.2347533	30.73	0.000	6.754322	7.674619	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0897814	.0358512	.0410472	.1963763
sd(_cons)	1.514746	.0394105	1.439438	1.593995
sd(Residual)	1.155578	.0374994	1.084369	1.231463

195 .
196 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations =	5
	Number of obs =	2,673
	Number of groups =	1,413
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	.
	Largest FMI =	.
	DF: min =	0.00
	avg =	.
	max =	.
	F(31, 45437.7) =	22.60
	Prob > F =	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0352941	.0472024	-0.75	0.455	-.1278252 .057237
w1Agecent48	-.017012	.0055683	-3.06	0.002	-.0279263 -.0060976
c.timew1w3##c.w1Agecent48	-.0008626	.0011725	-0.74	0.462	-.0031606 .0014355
timew1w3	0 (omitted)				
Sex					
Men	-.0280342	.1046723	-0.27	0.789	-.2331913 .1771229
Sex#c.timew1w3					
Men	-.0242411	.0221396	-1.09	0.274	-.0676344 .0191521
timew1w3	0 (omitted)				
Race					
AfrAm	-.5942739	.1071129	-5.55	0.000	-.8042122 -.3843356
Race#c.timew1w3					
AfrAm	-.0190756	.0228658	-0.83	0.404	-.0638921 .025741
timew1w3	0 (omitted)				
PovStat					
Below	-.1221663	.1092742	-1.12	0.264	-.3363496 .0920169
PovStat#c.timew1w3					
Below	-.0003522	.0226562	-0.02	0.988	-.0447576 .0440533

	timew1w3	0 (omitted)					
w1edubr							
2	-.2040785	.2159385	-0.95	0.345	-.6273252	.2191682	
3	.1447545	.2351726	0.62	0.538	-.3162051	.6057141	
w1edubr#c.timew1w3							
2	.0529158	.0442163	1.20	0.231	-.0337474	.1395789	
3	.0242099	.0484111	0.50	0.617	-.0706749	.1190948	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
	.1233623	.0073103	16.88	0.000	.1090344	.1376903	
c.timew1w3#c.w1WRATtotalcent42							
	-.0017142	.0015525	-1.10	0.270	-.0047573	.0013289	
timew1w3							
1.w1smoke	0 (omitted)						
	-.0482007	.1243828	-0.39	0.699	-.2957278	.1993264	
w1smoke#c.timew1w3							
1	.0035636	.0276505	0.13	0.898	-.0514285	.0585557	
timew1w3							
1.w1currdrugs	0 (omitted)						
	.1137582	.1431508	0.79	0.428	-.1682601	.3957765	
w1currdrugs#c.timew1w3							
1	.023267	.0302413	0.77	0.442	-.0360956	.0826296	
timew1w3							
w1hei2010_total_scorecent43	0 (omitted)						
	-.0017707	.0051654	-0.34	0.733	-.0121456	.0086041	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0012201	.0011807	1.03	0.305	-.0011357	.003576	
timew1w3							
w1BMIcon30	0 (omitted)						
	-.0051957	.00709	-0.73	0.464	-.0190967	.0087052	
c.timew1w3#c.w1BMIcon30							
	-.0025471	.0014825	-1.72	0.086	-.0054534	.0003591	
timew1w3							
invmillsmms	0 (omitted)						
	.0052188	.0032924	1.59	0.113	-.0012342	.0116719	
c.timew1w3#c.invmillsmms							
	-.0004105	.0006375	-0.64	0.520	-.0016601	.000839	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
	-.0173217	.0587241	-0.29	0.768	-.1324191	.0977758	
c.timew1w3#c.zw1w3HCYTRAJ							
	-.0031051	.0120445	-0.26	0.797	-.0267118	.0205017	
w1B12center522							
	.0004168	.0002319	1.80	0.072	-.0000377	.0008713	
c.timew1w3#c.w1B12center522							
	-.0000447	.0000496	-0.90	0.367	-.0001419	.0000524	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0001639	.0002865	0.57	0.567	-.0003977	.0007254	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
	-.0000523	.0000586	-0.89	0.372	-.0001671	.0000625	
_cons	6.019348	.2278249	26.42	0.000	5.572693	6.466003	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.32e-06	.	.	.
sd(_cons)	1.345123	.0391167	1.270599	1.424017
sd(Residual)	1.2377	.0247706	1.19009	1.287215

197 .
198 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations =	5
	Number of obs =	2,736
	Number of groups =	1,414
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0353
	Largest FMI =	0.1753
	DF: min =	148.27
	avg =	6.22e+07
	max =	2.14e+09
	F(31, 80226.5) =	7.06
	Prob > F =	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0644569	.036421	-1.77	0.077	-.1358509 .0069371
w1Agecent48	-.0025406	.0034589	-0.73	0.463	-.0093199 .0042387
c.timew1w3##c.w1Agecent48	-.0022208	.0009034	-2.46	0.014	-.0039914 -.0004502
timew1w3	0 (omitted)				
Sex					
Men	.0949821	.0650319	1.46	0.144	-.0324781 .2224422
Sex#c.timew1w3					
Men	.0115707	.0170431	0.68	0.497	-.0218333 .0449747
timew1w3	0 (omitted)				
Race					
AfrAm	-.3007718	.0667596	-4.51	0.000	-.4316183 -.1699252
Race#c.timew1w3					
AfrAm	.0160954	.017604	0.91	0.361	-.0184081 .0505988
timew1w3	0 (omitted)				
PovStat					
Below	.0524337	.0682158	0.77	0.442	-.0812675 .1861349
PovStat#c.timew1w3					
Below	-.0048827	.0174775	-0.28	0.780	-.039138 .0293726

	timew1w3	0 (omitted)					
w1edubr							
2	-.0215444	.1375495	-0.16	0.876	-.2912292	.2481404	
3	.1678076	.1489935	1.13	0.260	-.1242736	.4598889	
w1edubr#c.timew1w3							
2	.0431288	.0346179	1.25	0.213	-.0247295	.1109871	
3	.0572415	.0379053	1.51	0.131	-.0170621	.131545	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
	.0288735	.0045949	6.28	0.000	.0198671	.0378799	
c.timew1w3#c.w1WRATtotalcent42							
	-.0011417	.0012004	-0.95	0.342	-.0034954	.001212	
timew1w3							
1.w1smoke	0 (omitted)						
	-.0348952	.0759996	-0.46	0.647	-.1847055	.1149151	
w1smoke#c.timew1w3							
1	.0104776	.0200047	0.52	0.601	-.0289107	.0498659	
timew1w3							
1.w1currdrugs	0 (omitted)						
	.2964834	.0935671	3.17	0.002	.1115862	.4813806	
w1currdrugs#c.timew1w3							
1	-.0587529	.0228289	-2.57	0.010	-.1035275	-.0139783	
timew1w3							
w1hei2010_total_scorecent43	0 (omitted)						
	.0028791	.0030479	0.94	0.346	-.0031164	.0088747	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0004675	.000846	0.55	0.581	-.0012002	.0021352	
timew1w3							
w1BMIcon30	0 (omitted)						
	-.003638	.0043852	-0.83	0.407	-.012233	.004957	
c.timew1w3#c.w1BMIcon30							
	-.0000161	.0011353	-0.01	0.989	-.0022413	.0022091	
timew1w3							
invmillsmms	0 (omitted)						
	.0004781	.0020799	0.23	0.818	-.0035984	.0045546	
c.timew1w3#c.invmillsmms							
	-.000226	.0004981	-0.45	0.650	-.0012022	.0007502	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
	-.023172	.0368299	-0.63	0.529	-.0953586	.0490146	
c.timew1w3#zw1w3HCYTRAJ							
	-.0124419	.009154	-1.36	0.174	-.0303834	.0054997	
w1B12center522							
	-.0000752	.0001427	-0.53	0.598	-.0003548	.0002045	
c.timew1w3#w1B12center522							
	-3.34e-06	.000038	-0.09	0.930	-.0000779	.0000712	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0001813	.0001838	0.99	0.324	-.000179	.0005417	
c.timew1w3#zw1w3HCYTRAJ#c.w1B12center522							
	-.0000314	.0000452	-0.69	0.487	-.00012	.0000572	
_cons	8.820246	.1431803	61.60	0.000	8.539517	9.100975	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0376671	.0378504	.0052555	.2699647	
sd(_cons)	.6215893	.0308351	.5639986	.6850606	
sd(Residual)	.9668585	.024702	.9196354	1.016506	

199 .
200 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,670

Number of groups = 1,397
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0338
Largest FMI = 0.3157

DF: min = 48.25
avg = 2.67e+07
max = 7.58e+08

F(31, 86343.1) = 15.21
Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0138143	.0096586	1.43	0.153	-.0051198 .0327484
w1Agecent48	.0110529	.0010666	10.36	0.000	.0089623 .0131435
c.timew1w3#c.w1Agecent48	.0005794	.0002383	2.43	0.015	.0001124 .0010464
timew1w3	0 (omitted)				
Sex					
Men	.091485	.0200497	4.56	0.000	.0521883 .1307816
Sex#c.timew1w3					
Men	.0005688	.0044871	0.13	0.899	-.0082259 .0093634
timew1w3	0 (omitted)				
Race					
AfrAm	.1521073	.0205446	7.40	0.000	.1118405 .192374
Race#c.timew1w3					
AfrAm	-.002427	.0046152	-0.53	0.599	-.0114726 .0066187
timew1w3	0 (omitted)				
PovStat					
Below	.0607994	.0209607	2.90	0.004	.0197171 .1018816
PovStat#c.timew1w3					
Below	.0014198	.0045892	0.31	0.757	-.0075748 .0104145

	timew1w3	0 (omitted)					
w1edubr							
2	-.0605787	.0426195	-1.42	0.155	-.1441503	.0229929	
3	-.0474203	.0463182	-1.02	0.306	-.1382587	.043418	
w1edubr#c.timew1w3							
2	-.0076876	.0091907	-0.84	0.403	-.025706	.0103308	
3	-.0125711	.0100488	-1.25	0.211	-.0322731	.0071308	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
c.timew1w3#c.w1WRATtotalcent42	-.0080597	.0014285	-5.64	0.000	-.0108595	-.0052599	
timew1w3							
1.w1smoke	0 (omitted)						
w1smoke#c.timew1w3	.0053292	.0231987	0.23	0.819	-.0404878	.0511463	
1	.0027582	.0050768	0.54	0.587	-.0071975	.0127138	
timew1w3							
1.w1currdrugs	0 (omitted)						
w1currdrugs#c.timew1w3	.0517228	.027329	1.89	0.059	-.0020426	.1054882	
1	-.0043091	.0060716	-0.71	0.478	-.0162215	.0076033	
timew1w3							
w1hei2010_total_scorecent43	0 (omitted)						
c.timew1w3#c.w1hei2010_total_scorecent43	-.0000546	.001008	-0.05	0.957	-.002081	.0019718	
timew1w3							
w1BMIconcent30	0 (omitted)						
c.timew1w3#c.w1BMIconcent30	.002507	.0013436	1.87	0.062	-.0001264	.0051405	
timew1w3							
invmillsmms	0 (omitted)						
c.timew1w3#c.invmillsmms	.0003722	.0006272	0.59	0.553	-.0008571	.0016015	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
c.timew1w3#c.zw1w3HCYTRAJ	.0002456	.0002958	-0.83	0.406	-.0008254	.0003342	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
c.timew1w3#c.zw1w3HCYTRAJ	.0282506	.0114805	2.46	0.014	.0057492	.050752	
w1B12center522							
c.timew1w3#c.w1B12center522	-.0002486	.0024493	-0.10	0.919	-.0050493	.004552	
w1B12center522							
c.timew1w3#c.w1B12center522	.000013	.0000444	0.29	0.769	-.000074	.0001001	
c.zw1w3HCYTRAJ#c.w1B12center522							
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	.0000106	.0000101	1.06	0.291	-9.10e-06	.0000304	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000212	.0000561	-0.38	0.706	-.0001312	.0000888	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	6.30e-06	.000012	0.52	0.600	-.0000173	.0000299	
_cons	3.350807	.0443607	75.54	0.000	3.263825	3.437789	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0226854	.0059225	.0135995	.0378416	
sd(_cons)	.2545311	.0077891	.2397136	.2702645	
sd(Residual)	.2373053	.0076381	.2227972	.2527581	

201 .
202 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations =	5
	Number of obs =	2,578
Number of groups =	1,383	
Obs per group:		
min =	1	
avg =	1.9	
max =	2	
Average RVI =	.	
Largest FMI =	.	
DF: min =	0.00	
avg =	.	
max =	.	
F(31, 39583.4) =	24.19	
Prob > F =	0.0000	

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0131886	.0145652	0.91	0.365	-.0153678 .0417451
w1Agecent48	.0161322	.0017097	9.44	0.000	.0127812 .0194832
c.timew1w3##c.w1Agecent48	.0005889	.0003537	1.67	0.096	-.0001043 .0012821
timew1w3	0 (omitted)				
Sex					
Men	.0577915	.0320466	1.80	0.071	-.0050188 .1206018
Sex#c.timew1w3					
Men	-.0052346	.0066505	-0.79	0.431	-.0182693 .0078001
timew1w3	0 (omitted)				
Race					
AfrAm	.3001202	.0329106	9.12	0.000	.2356159 .3646244
Race#c.timew1w3					
AfrAm	-.0000428	.0069206	-0.01	0.995	-.0136072 .0135215
timew1w3	0 (omitted)				
PovStat					
Below	.1314429	.0336166	3.91	0.000	.0655547 .1973312
PovStat#c.timew1w3					
Below	.0004539	.0068774	0.07	0.947	-.0130257 .0139334

	timew1w3	0 (omitted)					
w1edubr							
2	-.1111429	.0673202	-1.65	0.099	-.2430965	.0208108	
3	-.2150241	.0725228	-2.96	0.003	-.3571677	-.0728806	
w1edubr#c.timew1w3							
2	-.008073	.0138089	-0.58	0.559	-.0351399	.0189938	
3	-.0082392	.0149876	-0.55	0.583	-.0376174	.0211389	
timew1w3							
w1WRATtotalcent42	0 (omitted)						
	-.0263503	.0023134	-11.39	0.000	-.0308849	-.0218157	
c.timew1w3#c.w1WRATtotalcent42							
	-.0002782	.0004938	-0.56	0.573	-.0012461	.0006896	
timew1w3							
1.w1smoke	0 (omitted)						
	.006806	.0377036	0.18	0.857	-.0680352	.0816471	
w1smoke#c.timew1w3							
1	.0078954	.0079733	0.99	0.323	-.0078134	.0236042	
timew1w3							
1.w1currdrugs	0 (omitted)						
	-.007857	.0453534	-0.17	0.863	-.0977796	.0820655	
w1currdrugs#c.timew1w3							
1	-.0025722	.0093746	-0.27	0.784	-.0210357	.0158912	
timew1w3							
w1hei2010_total_scorecent43	0 (omitted)						
	.0005005	.0014988	0.33	0.739	-.0024753	.0034762	
c.timew1w3#c.w1hei2010_total_scorecent43							
	-.0001416	.0003575	-0.40	0.693	-.0008528	.0005697	
timew1w3							
w1BMIconcent30	0 (omitted)						
	.0021521	.0021626	1.00	0.320	-.0020873	.0063915	
c.timew1w3#c.w1BMIconcent30							
	-.0006129	.0004432	-1.38	0.167	-.0014816	.0002557	
timew1w3							
invmillsmms	0 (omitted)						
	-.0023888	.0010036	-2.38	0.017	-.0043558	-.0004217	
c.timew1w3#c.invmillsmms							
	-.0003194	.0004803	-0.66	0.506	-.0012609	.000622	
timew1w3							
zw1w3HCYTRAJ	0 (omitted)						
	.0162847	.0183677	0.89	0.375	-.0197156	.0522851	
c.timew1w3#zw1w3HCYTRAJ							
	.0085431	.003606	2.37	0.018	.0014752	.0156111	
w1B12center522							
	.0000439	.0000709	0.62	0.536	-.0000951	.0001829	
c.timew1w3#w1B12center522							
	5.57e-06	.0000149	0.37	0.709	-.0000237	.0000348	
c.zw1w3HCYTRAJ#c.w1B12center522							
	-.0000463	.0000891	-0.52	0.604	-.0002209	.0001284	
c.timew1w3#zw1w3HCYTRAJ#c.w1B12center522							
	.0000181	.0000179	1.01	0.312	-.0000171	.0000533	
_cons	4.492662	.0701305	64.06	0.000	4.355199	4.630126	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.124e-07	.	.	.
sd(_cons)	.4240165	.0125084	.4001958	.4492551
sd(Residual)	.3602005	.0076799	.3454583	.3755719

203 .
 204 .
 205 . save, replace
 file finaldata_imputed_FINAL.dta saved
 206 .
 207 .
 208 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
 209 .
 210 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,621

Group variable: HNDID

Number of groups	=	1,398
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0453
 Largest FMI = 0.3145

DF adjustment: Large sample

DF:	min	=	48.60
	avg	=	7.01e+13
	max	=	3.58e+15

Model F test: Equal FMI

F(47,91118.5)	=	23.00
Prob > F	=	0.0000

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0932189	.0569817	1.64	0.102	-.018484 .2049218
w1Agecent48	-.0199921	.0052493	-3.81	0.000	-.0302819 -.0097024
c.timew1w3##c.w1Agecent48	-.0030633	.0012837	-2.39	0.017	-.0055796 -.000547
timew1w3	0	(omitted)			
Sex					
Men	-.3740383	.0919775	-4.07	0.000	-.5543182 -.1937584
Sex#c.timew1w3					
Men	.0233019	.0226194	1.03	0.303	-.021039 .0676428
timew1w3	0	(omitted)			
Race					
AfrAm	-.261263	.0946382	-2.76	0.006	-.4467819 -.0757442
Race#c.timew1w3					

AfrAm	- .0111825	.0236168	-0.47	0.636	- .0574758	.0351107
timew1w3	0	(omitted)				
PovStat Below	- .0150105	.0947659	-0.16	0.874	- .2007494	.1707284
PovStat#c.timew1w3 Below	- .0336197	.0229004	-1.47	0.142	- .0785036	.0112643
timew1w3	0	(omitted)				
w1edubr 2	.5161847	.1856827	2.78	0.005	.1522211	.8801482
3	.6840634	.2031727	3.37	0.001	.2857774	1.082349
w1edubr#c.timew1w3 2	- .0646752	.0468286	-1.38	0.167	- .1564756	.0271252
3	- .0616993	.0506094	-1.22	0.223	- .1609216	.037523
timew1w3	0	(omitted)				
w1WRATtotalcent42	.1441925	.006416	22.47	0.000	.1316152	.1567698
c.timew1w3#c.w1WRATtotalcent42	- .0069659	.0017453	-3.99	0.000	- .0103875	- .0035442
timew1w3 1.w1smoke	0	(omitted)				
1.w1smoke#c.timew1w3 1	.0328139	.1015564	0.32	0.747	- .1667851	.232413
w1smoke#c.timew1w3 1	- .0539544	.0247359	-2.18	0.029	- .102437	- .0054718
timew1w3 1.w1currdrugs	0	(omitted)				
1.w1currdrugs	- .0428272	.1334896	-0.32	0.749	- .3087202	.2230657
w1currdrugs#c.timew1w3 1	.0157415	.0310896	0.51	0.613	- .0454664	.0769494
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	- .0049226	.0045833	-1.07	0.288	- .014116	.0042708
c.timew1w3#c.w1hei2010_total_scorecent43	.0007303	.0012178	0.60	0.552	- .0017176	.0031781
timew1w3 w1BMIcon30	0	(omitted)				
w1BMIcon30	- .0055113	.0065645	-0.84	0.401	- .0183807	.0073581
c.timew1w3#c.w1BMIcon30	- .0000591	.00157	-0.04	0.970	- .0031362	.003018
timew1w3	0	(omitted)				
w1SRH 2	.1704382	.1212994	1.41	0.160	- .0673045	.4081808
3	.0950682	.1304794	0.73	0.466	- .1606684	.3508049
w1SRH#c.timew1w3 2	- .0064958	.0302181	-0.21	0.830	- .0657223	.0527308
3	- .0116074	.0324713	-0.36	0.721	- .0752514	.0520366
timew1w3 w1CEScent15	0	(omitted)				
w1CEScent15	- .0078754	.0042785	-1.84	0.066	- .0162616	.0005107
c.timew1w3#c.w1CEScent15	.0005458	.0010649	0.51	0.608	- .0015416	.0026332
timew1w3	0	(omitted)				

w1dxHTN Yes	.0230534	.1008423	0.23	0.819	-.1746024	.2207091
w1dxHTN#c.timew1w3 Yes	-.0053362	.0254051	-0.21	0.834	-.0551428	.0444703
timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes	-.006432 -.062962	.1179974 .1491708	-0.05 -0.42	0.957 0.674	-.2377753 -.3579321	.2249112 .2320081
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.0276285 -.0516539	.0290692 .0360776	0.95 -1.43	0.342 0.153	-.0293474 -.1224553	.0846043 .0191475
timew1w3	0	(omitted)				
w1CVhighChol Yes	.1842398	.1104951	1.67	0.096	-.0326416	.4011212
w1CVhighChol#c.timew1w3 Yes	.0079756	.0279677	0.29	0.776	-.0468692	.0628203
timew1w3 1.w1cvdbr	0 -.0235113	(omitted) .1304342	-0.18	0.857	-.2808014	.2337788
w1cvdbr#c.timew1w3 1	-.0032872	.0321974	-0.10	0.919	-.0665842	.0600098
timew1w3 invmillsmms	0 .0079493	(omitted) .0027799	2.86	0.004	.0025008	.0133978
c.timew1w3#c.invmillsmms	-.0018775	.0006116	-3.07	0.002	-.0030763	-.0006787
timew1w3 zw1w3HCYTRAJ	0 .0012406	(omitted) .0518833	0.02	0.981	-.1004797	.1029609
c.timew1w3#c.zw1w3HCYTRAJ	.0019788	.012648	0.16	0.876	-.022813	.0267706
w1B12center522	.0001365	.0001983	0.69	0.491	-.0002522	.0005252
c.timew1w3#c.w1B12center522	-.0000668	.0000496	-1.35	0.178	-.000164	.0000304
c.zw1w3HCYTRAJ#c.w1B12center522	.0000691	.0002685	0.26	0.797	-.0004596	.0005977
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-7.05e-06	.0000644	-0.11	0.913	-.0001334	.0001193
_cons	27.32399	.2237943	122.09	0.000	26.88532	27.76266

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	5.32e-07	.0001906	0	2.4e+298	
sd(_cons)	.9945384	.0429462	.9138144	1.082393	
sd(Residual)	1.211066	.0265721	1.160087	1.264285	

```

211 .
212 .
213 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations      =      5
Number of obs    =  2,621
Number of groups = 1,398
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI     = 0.0405
Largest FMI     = 0.3520
DF: min         = 39.13
      avg         = 9.45e+08
      max         = 4.82e+10
F( 47, 103818.4) = 20.53
Prob > F        = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4633388	.4609408	1.01	0.315	.4401749	1.366853
w1Agecent48	-.1750634	.0409782	-4.27	0.000	-.2553823	-.0947446
c.timew1w3##c.w1Agecent48	-.0237452	.0104106	-2.28	0.023	-.0441512	-.0033393
timew1w3	0	(omitted)				
Sex						
Men	-2.276382	.7212433	-3.16	0.002	-3.690046	-.8627172
Sex#c.timew1w3						
Men	.139734	.1841974	0.76	0.448	-.2213637	.5008318
timew1w3	0	(omitted)				
Race						
AfrAm	-3.570954	.7394664	-4.83	0.000	-5.020397	-2.12151
Race#c.timew1w3						
AfrAm	.072208	.1915614	0.38	0.706	-.3032718	.4476878
timew1w3	0	(omitted)				
PovStat						
Below	-.3024392	.7435462	-0.41	0.684	-1.759774	1.154896
PovStat#c.timew1w3						
Below	-.2928498	.1862096	-1.57	0.116	-.6578142	.0721146
timew1w3	0	(omitted)				
w1edubr						
2	3.76311	1.454177	2.59	0.010	.9128247	6.613394
3	5.729785	1.588877	3.61	0.000	2.615344	8.844226
w1edubr#c.timew1w3						

	2	-.5001777	.3788042	-1.32	0.187	-1.242698	.242343
	3	-.3604919	.4092143	-0.88	0.378	-1.162663	.4416788
	timew1w3	0 (omitted)					
w1WRATtotalcent42		.9396718	.0501961	18.72	0.000	.8412792	1.038064
c.timew1w3#c.w1WRATtotalcent42		-.0318791	.0141321	-2.26	0.024	-.0595845	-.0041737
	timew1w3	0 (omitted)					
1.w1smoke		-.3484116	.7876605	-0.44	0.658	-1.894324	1.197501
w1smoke#c.timew1w3							
1		-.2966981	.1999868	-1.48	0.138	-.6886651	.0952689
	timew1w3	0 (omitted)					
1.w1currdrugs		.2937574	1.029354	0.29	0.776	-1.747734	2.335248
w1currdrugs#c.timew1w3							
1		.0481094	.257289	0.19	0.852	-.459845	.5560639
	timew1w3	0 (omitted)					
w1hei2010_total_scorecent43		-.0280884	.0346882	-0.81	0.420	-.0969909	.0408142
c.timew1w3#c.w1hei2010_total_scorecent43		.0078332	.010114	0.77	0.443	-.012622	.0282884
	timew1w3	0 (omitted)					
w1BMIcent30		-.0505341	.0511624	-0.99	0.323	-.1508185	.0497504
c.timew1w3#c.w1BMIcent30		-.001388	.0127509	-0.11	0.913	-.0263793	.0236033
	timew1w3	0 (omitted)					
w1SRH							
2		1.326919	.9519165	1.39	0.163	-.5388069	3.192645
3		1.528745	1.027666	1.49	0.137	-.4855453	3.543035
w1SRH#c.timew1w3							
2		-.104635	.2454394	-0.43	0.670	-.5856874	.3764175
3		-.1864493	.2639622	-0.71	0.480	-.7038184	.3309199
	timew1w3	0 (omitted)					
w1CEScent15							
timew1w3		-.061199	.0334723	-1.83	0.068	-.1268049	.0044069
c.timew1w3#c.w1CEScent15		.0049151	.008636	0.57	0.569	-.0120121	.0218423
	timew1w3	0 (omitted)					
w1dxHTN							
Yes		.4183194	.7936117	0.53	0.598	-1.137244	1.973883
w1dxHTN#c.timew1w3							
Yes		-.0604542	.2054491	-0.29	0.769	-.4631747	.3422664
	timew1w3	0 (omitted)					
w1dxDiabetes							
preDiabetes							
Diabetes		.5247581	.9313904	0.56	0.573	-1.301729	2.351246
w1dxDiabetes#c.timew1w3							
preDiabetes		.0415319	1.144595	0.04	0.971	-2.21344	2.296504
Diabetes							
		.2215252	.2359317	0.94	0.348	-.2408969	.6839473
		-.413799	.2915503	-1.42	0.156	-.9857418	.1581439

	timew1w3	0 (omitted)					
w1CVhighChol							
Yes	1.216891	.8736366	1.39	0.164	-.4984443	2.932227	
w1CVhighChol#c.timew1w3							
Yes	.1078337	.2330872	0.46	0.644	-.3501583	.5658257	
timew1w3		0 (omitted)					
1.w1cvdbr	-.4957849	1.041073	-0.48	0.635	-2.553811	1.562241	
w1cvdbr#c.timew1w3							
1	-.0298229	.2649527	-0.11	0.910	-.5515423	.4918965	
timew1w3		0 (omitted)					
invmillsmms	.0446319	.0218023	2.05	0.041	.0019002	.0873637	
c.timew1w3#c.invmillsmms							
	-.0101009	.0049836	-2.03	0.043	-.0198685	-.0003332	
timew1w3		0 (omitted)					
zw1w3HCYTRAJ	.0948919	.4007937	0.24	0.813	-.6906505	.8804344	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0047757	.1025087	0.05	0.963	-.1961477	.2056992	
w1B12center522							
	.0004321	.0015506	0.28	0.781	-.0026072	.0034714	
c.timew1w3#c.w1B12center522							
	-.0004377	.0004039	-1.08	0.279	-.0012298	.0003544	
c.zw1w3HCYTRAJ#c.w1B12center522							
	.0001985	.0019809	0.10	0.920	-.003684	.004081	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
	.0000185	.0005126	0.04	0.971	-.0009862	.0010231	
_cons	73.80986	1.767331	41.76	0.000	70.34501	77.27471	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0002358	.017897	5.72e-69	9.71e+60
sd(_cons)	7.326731	.3193136	6.726852	7.980106
sd(Residual)	9.872918	.2026455	9.483615	10.2782

```

214 .
215 .
216 .
217 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4bobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 2,435

Group variable: HNDID

	Number of groups =	1,391
	Obs per group:	
	min =	1
	avg =	1.8
	max =	2
	Average RVI =	0.0415
	Largest FMI =	0.3955
DF adjustment:	Large sample	DF: min = 31.21
		avg = 129,274.05
		max = 1482779.90
Model F test:	Equal FMI	F(47,99404.8) = 35.51
		Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-1.051465	.1791318	-5.87	0.000	-1.402563 -.7003676
	w1Agecent48	-.1528577	.0202224	-7.56	0.000	-.1924962 -.1132193
	c.timew1w3#c.w1Agecent48	-.0082166	.0043847	-1.87	0.061	-.0168107 .0003776
	timew1w3	0	(omitted)			
	Sex					
	Men	-2.342007	.354208	-6.61	0.000	-3.036244 -1.64777
	Sex#c.timew1w3					
	Men	-.2278739	.0768314	-2.97	0.003	-.3784631 -.0772848
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-2.327714	.3646836	-6.38	0.000	-3.042529 -1.612899
	Race#c.timew1w3					
	AfrAm	.1128976	.0797462	1.42	0.157	-.0434375 .2692328
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1245565	.364406	-0.34	0.732	-.8387918 .5896788
	PovStat#c.timew1w3					
	Below	-.0326533	.0769125	-0.42	0.671	-.1834036 .118097
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.482462	.7017044	-0.69	0.492	-1.858595 .8936706
	3	1.720047	.7647281	2.25	0.025	.2206031 3.21949
	w1edubr#c.timew1w3					
	2	.0959981	.1457919	0.66	0.510	-.1898335 .3818298
	3	-.0668501	.1603282	-0.42	0.677	-.3811448 .2474446
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.2247514	.0243505	9.23	0.000	.1770237 .2724792
	c.timew1w3#c.w1WRATtotalcent42	-.0065145	.0051732	-1.26	0.208	-.0166542 .0036251
	timew1w3	0	(omitted)			
	1.w1smoke	.166093	.3853707	0.43	0.667	-.5926167 .9248027

w1smoke#c.timew1w3							
1	-.0306755	.0893801	-0.34	0.732	-.2071059	.1457548	
timew1w3	0 (omitted)						
1.w1currdrugs	-.2738223	.4512607	-0.61	0.544	-1.15902	.6113755	
w1currdrugs#c.timew1w3							
1	.1158841	.101275	1.14	0.253	-.0830315	.3147997	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0223781	.0185417	1.21	0.237	-.0154277	.0601838	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0 (omitted)						
w1BMIcon30	.0039519	.0248957	0.16	0.874	-.0448447	.0527484	
c.timew1w3#c.w1BMIcon30							
timew1w3	0 (omitted)						
w1SRH							
2	.9132228	.4651133	1.96	0.050	.0015629	1.824883	
3	.8428676	.5020992	1.68	0.093	-.1413699	1.827105	
w1SRH#c.timew1w3							
2	-.1458665	.099992	-1.46	0.145	-.3418489	.0501158	
3	-.1373079	.1073394	-1.28	0.201	-.3476921	.0730763	
timew1w3	0 (omitted)						
w1CEScent15							
timew1w3	0 (omitted)						
w1CEScent15							
c.timew1w3#c.w1CEScent15							
timew1w3	0 (omitted)						
w1dxHTN							
Yes	.0648813	.3864355	0.17	0.867	-.692723	.8224856	
w1dxHTN#c.timew1w3							
Yes	-.0217653	.0848689	-0.26	0.798	-.1881218	.1445912	
timew1w3	0 (omitted)						
w1dxDiabetes							
preDiabetes							
Diabetes							
timew1w3	0 (omitted)						
w1dxDiabetes							
preDiabetes							
Diabetes							
w1dxDiabetes#c.timew1w3							
preDiabetes							
Diabetes							
timew1w3	0 (omitted)						
w1CVhighChol							
Yes	-.2545616	.420123	-0.61	0.545	-1.079173	.5700495	
w1CVhighChol#c.timew1w3							
Yes	.17234	.0962434	1.79	0.074	-.0164914	.3611715	
timew1w3	0 (omitted)						
1.w1cvdbr	.5135228	.4676232	1.10	0.272	-.4040338	1.431079	

w1cvdbr#c.timew1w3							
1	-.1573183	.1066579	-1.47	0.141	-.3667875	.052151	
timew1w3	0	(omitted)					
invmillsmms	.0182269	.0102269	1.78	0.075	-.0018175	.0382713	
c.timew1w3#c.invmillsmms	-.0003369	.0019944	-0.17	0.866	-.0042458	.0035721	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.507434	.1996306	2.54	0.011	.1161648	.8987032	
c.timew1w3#c.zw1w3HCYTRAJ	-.0471608	.0425009	-1.11	0.267	-.1304613	.0361398	
w1B12center522	.0005808	.0007915	0.73	0.464	-.0009755	.002137	
c.timew1w3#c.w1B12center522	-.0001078	.000169	-0.64	0.524	-.0004391	.0002235	
c.zw1w3HCYTRAJ#c.w1B12center522	-.0000125	.0009851	-0.01	0.990	-.0019435	.0019184	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	2.95e-06	.0002095	0.01	0.989	-.0004076	.0004135	
_cons	25.90516	.841046	30.80	0.000	24.25663	27.55368	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3444583	.1029562	.1917357	.6188286
sd(_cons)	4.289686	.1293487	4.043512	4.550848
sd(Residual)	3.65409	.1303845	3.407265	3.918796

```

218 .
219 .
220 .
221 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,313
Number of groups = 1,365
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0590
Largest FMI = 0.3402
DF: min = 41.79
        avg = 144,566.44
        max = 2132210.14
F( 47,50295.5) = 22.17
Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.394872	.0873604	-4.52	0.000	-.5660982 -.2236457
w1Agecent48		-.0793996	.0097292	-8.16	0.000	-.0984693 -.0603298
c.timew1w3#c.w1Agecent48		-.0046661	.0021577	-2.16	0.031	-.0088951 -.0004371
	timew1w3	0	(omitted)			
Sex						
Men		-.9962901	.1706526	-5.84	0.000	-1.330766 -.6618146
Sex#c.timew1w3						
Men		-.0602003	.0374883	-1.61	0.108	-.1336773 .0132766
	timew1w3	0	(omitted)			
Race						
AfrAm		-1.331005	.1751265	-7.60	0.000	-1.674277 -.9877338
Race#c.timew1w3						
AfrAm		.0191563	.0386808	0.50	0.620	-.0566608 .0949734
	timew1w3	0	(omitted)			
PovStat						
Below		.0005642	.1755915	0.00	0.997	-.3435998 .3447282
PovStat#c.timew1w3						
Below		-.0261574	.037631	-0.70	0.487	-.099916 .0476012
	timew1w3	0	(omitted)			
w1edubr						
2		-.1666824	.339669	-0.49	0.624	-.832841 .4994761
3		.5082009	.3692341	1.38	0.169	-.2157171 1.232119
w1edubr#c.timew1w3						
2		-.0067281	.0705527	-0.10	0.924	-.1450426 .1315865
3		-.0016658	.0775795	-0.02	0.983	-.1537343 .1504027
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.0950651	.0118094	8.05	0.000	.0719161 .1182142
c.timew1w3#c.w1WRATtotalcent42		-.0044957	.0025196	-1.78	0.074	-.0094341 .0004427
	timew1w3	0	(omitted)			
1.w1smoke		.0421566	.1985587	0.21	0.832	-.3527107 .4370239
w1smoke#c.timew1w3						
1		-.0139128	.0458865	-0.30	0.763	-.105293 .0774674
	timew1w3	0	(omitted)			
1.w1currdrugs		-.1494314	.2308129	-0.65	0.518	-.6048031 .3059404
w1currdrugs#c.timew1w3						
1		-.0204145	.0523533	-0.39	0.697	-.1241168 .0832877
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		.0075497	.0087516	0.86	0.393	-.0101145 .0252138
c.timew1w3#c.w1hei2010_total_scorecent43		-.0008025	.0019675	-0.41	0.684	-.0047075 .0031026

	timew1w3	0	(omitted)				
w1BMIcent30		.0268793	.0119904	2.24	0.025	.0033776	.050381
c.timew1w3#c.w1BMIcent30		-.0023381	.0025826	-0.91	0.365	-.0073999	.0027237
	timew1w3	0	(omitted)				
w1SRH							
2		.2563469	.223637	1.15	0.252	-.1819855	.6946794
3		.0735208	.2421074	0.30	0.761	-.4010637	.5481054
w1SRH#c.timew1w3							
2		.013166	.0490912	0.27	0.789	-.0830511	.109383
3		.0555903	.0527113	1.05	0.292	-.0477221	.1589027
	timew1w3	0	(omitted)				
w1CEScent15		-.030153	.0077977	-3.87	0.000	-.0454362	-.0148698
c.timew1w3#c.w1CEScent15		-.0000799	.0017333	-0.05	0.963	-.003478	.0033182
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0068159	.185616	0.04	0.971	-.3570571	.3706888
w1dxHTN#c.timew1w3							
Yes		.0216606	.0413631	0.52	0.601	-.0594127	.1027339
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.2321416	.2163636	-1.07	0.283	-.6564158	.1921326
Diabetes		-.2235867	.2684769	-0.83	0.406	-.7521483	.3049748
w1dxDiabetes#c.timew1w3							
preDiabetes		.0662281	.0481671	1.37	0.169	-.0282003	.1606566
Diabetes		-.0170247	.0586692	-0.29	0.772	-.1321514	.0981019
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0662225	.2080103	-0.32	0.750	-.4753319	.342887
w1CVhighChol#c.timew1w3							
Yes		.0624796	.0480293	1.30	0.194	-.0319328	.1568921
	timew1w3	0	(omitted)				
1.w1cvdbr		.2876704	.2308965	1.25	0.213	-.1659211	.7412618
w1cvdbr#c.timew1w3							
1		-.0489515	.0517313	-0.95	0.344	-.1504273	.0525243
	timew1w3	0	(omitted)				
invmillsmms		.0082475	.0048676	1.69	0.090	-.0012928	.0177877
c.timew1w3#c.invmillsmms		-.0004771	.0009443	-0.51	0.613	-.002328	.0013738
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.3642747	.0986266	3.69	0.000	.170961	.5575883
c.timew1w3#c.zw1w3HCYTRAJ		-.0307011	.0206498	-1.49	0.137	-.0711749	.0097727

w1B12center522	.0000828	.0003751	0.22	0.825	-.000653	.0008186
c.timew1w3#c.w1B12center522	.0000706	.0000825	0.86	0.392	-.0000911	.0002323
c.zw1w3HCYTRAJ#c.w1B12center522	.0003413	.0005027	0.68	0.497	-.0006445	.0013271
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	.0000109	.0001062	0.10	0.919	-.0001974	.0002191
_cons	8.356114	.4109564	20.33	0.000	7.550399	9.16183

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0746736	.1064868	.0045636	1.221865
sd(_cons)	1.970118	.0633936	1.849705	2.09837
sd(Residual)	1.799779	.061079	1.683961	1.923563

222 .
 223 .
 224 .
 225 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
 > imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,720

Group variable: HNDID

Number of groups	=	1,412
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0440
Largest FMI	=	0.2968

DF adjustment: Large sample

DF:	min	=	54.33
	avg	=	1.92e+07
	max	=	9.66e+08

Model F test: Equal FMI

F(47, 87273.8)	=	20.17
Prob > F	=	0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.5215855	.1280449	4.07	0.000	.2705911	.77258
w1Agecent48	.1114836	.0141191	7.90	0.000	.0838088	.1391585
c.timew1w3#c.w1Agecent48	.0103831	.0030066	3.45	0.001	.0044902	.0162761
timew1w3	0	(omitted)				
Sex						
Men	-.9244117	.2487993	-3.72	0.000	-1.41208	-.4367431
Sex#c.timew1w3						
Men	.0546033	.0527768	1.03	0.301	-.0488417	.1580482
timew1w3	0	(omitted)				

Race						
AfrAm	.6392368	.2532267	2.52	0.012	.1429114	1.135562
Race#c.timew1w3						
AfrAm	.151798	.0543745	2.79	0.005	.0452244	.2583716
timew1w3	0	(omitted)				
PovStat						
Below	.1058571	.2564917	0.41	0.680	-.3968579	.608572
PovStat#c.timew1w3						
Below	.0330798	.0535677	0.62	0.537	-.0719112	.1380708
timew1w3	0	(omitted)				
w1edubr						
2	-.5879357	.500038	-1.18	0.240	-1.568107	.3922358
3	-1.390599	.5501976	-2.53	0.012	-2.469347	-.3118508
w1edubr#c.timew1w3						
2	-.1714783	.1032497	-1.66	0.097	-.3738483	.0308917
3	-.1455121	.1131492	-1.29	0.198	-.3672819	.0762577
timew1w3	0	(omitted)				
w1WRATtotalcent42						
c.timew1w3#c.w1WRATtotalcent42	-.1490481	.0174321	-8.55	0.000	-.1832333	-.1148628
- .0042561	.003617	-1.18	0.239	-.0113453	.002833	
timew1w3	0	(omitted)				
1.w1smoke	.2915602	.2722065	1.07	0.285	-.2437159	.8268362
w1smoke#c.timew1w3						
1	-.0534483	.0585049	-0.91	0.361	-.1681363	.0612398
timew1w3	0	(omitted)				
1.w1currdrugs	-.443816	.3678809	-1.21	0.233	-1.181271	.2936387
w1currdrugs#c.timew1w3						
1	.1242136	.0724802	1.71	0.087	-.0183137	.266741
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43						
-.0031892	.0115247	-0.28	0.783	-.0260835	.0197051	
c.timew1w3#c.w1hei2010_total_scorecent43						
-.0038041	.0027005	-1.41	0.162	-.0091575	.0015493	
timew1w3	0	(omitted)				
w1BMIcon30						
-.0109152	.0175378	-0.62	0.534	-.0452892	.0234588	
c.timew1w3#c.w1BMIcon30						
-.0038552	.003712	-1.04	0.299	-.0111305	.0034202	
timew1w3	0	(omitted)				
w1SRH						
2	-.8141289	.329712	-2.47	0.014	-1.460354	-.1679037
3	-.7828187	.3552951	-2.20	0.028	-1.479186	-.0864518
w1SRH#c.timew1w3						
2	-.0611639	.0704748	-0.87	0.385	-.1992924	.0769646
3	-.018563	.0761626	-0.24	0.807	-.1678505	.1307244
timew1w3	0	(omitted)				

w1CEScent15	.0451015	.0117151	3.85	0.000	.0221352	.0680678
c.timew1w3#c.w1CEScent15	-.0003344	.0025049	-0.13	0.894	-.0052452	.0045764
timew1w3	0	(omitted)				
w1dxHTN Yes	.3641002	.2722798	1.34	0.181	-.1696155	.8978158
w1dxHTN#c.timew1w3 Yes	-.0298889	.058932	-0.51	0.612	-.1453942	.0856164
timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes	.3207604 .2554645	.3187285 .3831781	1.01 0.67	0.314 0.505	-.304122 -.4973426	.9456427 1.008272
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	-.0410178 .0245056	.068147 .081357	-0.60 0.30	0.547 0.763	-.1745848 -.1349546	.0925492 .1839659
timew1w3	0	(omitted)				
w1CVhighChol Yes	.0134327	.2999977	0.04	0.964	-.5766568	.6035221
w1CVhighChol#c.timew1w3 Yes	-.00718	.0660968	-0.11	0.914	-.136789	.1224291
timew1w3 1.w1cvdbr	0 .4666504	(omitted) .3345712	1.39	0.164	-.1903406	1.123641
w1cvdbr#c.timew1w3 1	-.1643768	.0731589	-2.25	0.025	-.3078203	-.0209334
timew1w3 invmillsmms	0 -.0175673	(omitted) .0075767	-2.32	0.020	-.0324174	-.0027172
c.timew1w3#c.invmillsmms	.0000998	.0014784	0.07	0.946	-.0027979	.0029975
timew1w3 zw1w3HCYTRAJ	0 -.0599043	(omitted) .1432169	-0.42	0.676	-.3412121	.2214035
c.timew1w3#c.zw1w3HCYTRAJ	.050623	.0278109	1.82	0.069	-.0038853	.1051314
w1B12center522	-.0001312	.0005622	-0.23	0.816	-.0012373	.0009749
c.timew1w3#c.w1B12center522	.0000597	.0001161	0.51	0.607	-.000168	.0002874
c.zw1w3HCYTRAJ#c.w1B12center522	.0006134	.0007679	0.80	0.427	-.000919	.0021458
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0001418	.0001376	-1.03	0.303	-.0004115	.000128
_cons	7.662239	.6055195	12.65	0.000	6.475334	8.849144

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0001443	.0172014	5.2e-106	4.00e+97
sd(_cons)	3.090846	.0911383	2.917282	3.274736
sd(Residual)	2.91274	.0575949	2.802015	3.027841

```

226 .
227 .
228 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID
DF adjustment: Large sample
Model F test: Equal FMI

Imputations = 5
Number of obs = 2,460
Number of groups = 1,392
Obs per group:
    min = 1
    avg = 1.8
    max = 2
    Average RVI = 0.0362
    Largest FMI = 0.2885
    DF: min = 57.33
        avg = 1699290.12
        max = 2.83e+07
    F( 47, 127302.8) = 9.34
    Prob > F = 0.0000

```

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0315515	.0663891	-0.48	0.635	-.1616744	.0985714
w1Agecent48	-.0148951	.006895	-2.16	0.031	-.0284097	-.0013804
c.timew1w3#c.w1Agecent48	-.0028783	.0015608	-1.84	0.065	-.0059374	.0001808
timew1w3	0	(omitted)				
Sex						
Men	-.2820882	.1210099	-2.33	0.020	-.5192633	-.044913
Sex#c.timew1w3						
Men	-.0058734	.0271867	-0.22	0.829	-.0591584	.0474117
timew1w3	0	(omitted)				
Race						
AfrAm	-.7476398	.124432	-6.01	0.000	-.9915261	-.5037536
Race#c.timew1w3						
AfrAm	.0429914	.0281188	1.53	0.126	-.0121204	.0981033
timew1w3	0	(omitted)				
PovStat						
Below	-.0349522	.1256824	-0.28	0.781	-.2812857	.2113813

PovStat#c.timew1w3 Below		-.0447265	.0279671	-1.60	0.110	-.0995422	.0100891
	timew1w3		0 (omitted)				
w1edubr 2 3		.3779539	.2458956	1.54	0.124	-.1040243	.859932
		.4820104	.2683537	1.80	0.073	-.0440431	1.008064
w1edubr#c.timew1w3 2 3		-.0057675	.0546839	-0.11	0.916	-.1129558	.1014209
		-.0290449	.0593044	-0.49	0.624	-.1452834	.0871937
timew1w3 w1WRATtotalcent42			0 (omitted)				
		.072679	.0084273	8.62	0.000	.0561616	.0891965
c.timew1w3#c.w1WRATtotalcent42		.0031561	.0019139	1.65	0.099	-.0005952	.0069074
timew1w3 1.w1smoke			0 (omitted)				
		-.141566	.1388297	-1.02	0.310	-.4159707	.1328387
w1smoke#c.timew1w3 1		-.0174494	.0304453	-0.57	0.567	-.0771543	.0422556
timew1w3 1.w1currdrugs			0 (omitted)				
		.3362167	.155416	2.16	0.031	.0314982	.6409352
w1currdrugs#c.timew1w3 1		-.0270524	.0357661	-0.76	0.449	-.0971672	.0430624
timew1w3 w1hei2010_total_scorecent43			0 (omitted)				
		-.006124	.0055548	-1.10	0.272	-.0170931	.0048451
c.timew1w3#c.w1hei2010_total_scorecent43		.0001038	.0012505	0.08	0.934	-.0023474	.0025549
timew1w3 w1BMIcon30			0 (omitted)				
		-.0177132	.0086366	-2.05	0.040	-.0346414	-.000785
c.timew1w3#c.w1BMIcon30		.0006421	.0019194	0.33	0.738	-.00312	.0044041
timew1w3 w1SRH 2 3			0 (omitted)				
		.4196673	.1616644	2.60	0.009	.1028005	.7365341
		.3414105	.1740658	1.96	0.050	.0002276	.6825934
w1SRH#c.timew1w3 2 3		-.0297076	.0366502	-0.81	0.418	-.101541	.0421257
		-.0024609	.0395877	-0.06	0.950	-.0800575	.0751358
timew1w3 w1CEScent15			0 (omitted)				
		-.0071194	.0056425	-1.26	0.207	-.0181789	.0039401
c.timew1w3#c.w1CEScent15		-.0004614	.0012701	-0.36	0.716	-.0029507	.0020279
timew1w3 w1dxHTN Yes			0 (omitted)				
		.0347698	.1357969	0.26	0.798	-.2315501	.3010898
w1dxHTN#c.timew1w3 Yes		-.0405768	.0308148	-1.32	0.188	-.1009788	.0198253

	timew1w3	0 (omitted)				
w1dxDiabetes						
preDiabetes	-.2147993	.1533126	-1.40	0.161	-.5152889	.0856903
Diabetes	-.3279501	.1897548	-1.73	0.085	-.7009375	.0450373
w1dxDiabetes#c.timew1w3						
preDiabetes	.0708743	.0353662	2.00	0.045	.0015574	.1401911
Diabetes	-.0223247	.0418493	-0.53	0.594	-.1043564	.0597069
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	.1493908	.1541687	0.97	0.334	-.1554407	.4542224
w1CVhighChol#c.timew1w3						
Yes	.0254547	.0343147	0.74	0.458	-.0418513	.0927606
timew1w3	0 (omitted)					
1.w1cvdbr	.026724	.1849616	0.14	0.886	-.3436085	.3970565
w1cvdbr#c.timew1w3						
1	.0218755	.0404198	0.54	0.589	-.0579915	.1017424
timew1w3	0 (omitted)					
invmillsmms	.0022093	.0035311	0.63	0.532	-.0047115	.00913
c.timew1w3#c.invmillsmms						
	-.0007306	.000729	-1.00	0.316	-.0021595	.0006982
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	.0196953	.0674341	0.29	0.770	-.1124741	.1518647
c.timew1w3#c.zw1w3HCYTRAJ						
	-.0176834	.0149049	-1.19	0.235	-.0468969	.0115301
w1B12center522						
	.0002906	.0002636	1.10	0.271	-.0002265	.0008076
c.timew1w3#c.w1B12center522						
	.0000471	.0000598	0.79	0.431	-.0000702	.0001644
c.zw1w3HCYTRAJ#c.w1B12center522						
	.0001504	.0003253	0.46	0.644	-.0004872	.0007881
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522						
	-.0000254	.0000707	-0.36	0.719	-.0001639	.0001131
_cons	6.601912	.2950268	22.38	0.000	6.023664	7.18016

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0936961	.0426855	.0383652 .2288266
sd(_cons)	1.377149	.0459596	1.289953 1.47024
sd(Residual)	1.373024	.0440248	1.289392 1.46208

229 .

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0239838	.1332602	-0.18	0.857	-.2852317 .2372642
w1Agecent48	-.0958269	.01645	-5.83	0.000	-.1280808 -.063573
c.timew1w3#c.w1Agecent48	-.0022958	.0031428	-0.73	0.465	-.0084557 .0038641
timew1w3	0	(omitted)			
Sex					
Men	1.169447	.2855049	4.10	0.000	.6098575 1.729037
Sex#c.timew1w3					
Men	.0014065	.0546726	0.03	0.979	-.1057502 .1085631
timew1w3	0	(omitted)			
Race					
AfrAm	-1.523751	.2934709	-5.19	0.000	-2.098962 -.94854
Race#c.timew1w3					
AfrAm	-.0152191	.0570757	-0.27	0.790	-.127092 .0966537
timew1w3	0	(omitted)			
PovStat					
Below	-.4941993	.2973179	-1.66	0.096	-1.076944 .0885458
PovStat#c.timew1w3					
Below	.0195457	.0561932	0.35	0.728	-.0905928 .1296842
timew1w3	0	(omitted)			
w1edubr					
2	-.3636811	.5760737	-0.63	0.528	-1.492837 .7654745
3	.8432894	.6276215	1.34	0.179	-.386894 2.073473
w1edubr#c.timew1w3					
2	.0933799	.1100747	0.85	0.396	-.1225194 .3092793

	3	.0646411	.1212546	0.53	0.594	-.1732215	.3025037
	timew1w3	0 (omitted)					
w1WRATtotalcent42		.1542777	.0196103	7.87	0.000	.1158418	.1927137
c.timew1w3#c.w1WRATtotalcent42		.0028767	.0037771	0.76	0.446	-.0045267	.01028
	timew1w3	0 (omitted)					
1.w1smoke		-.4288765	.3297952	-1.30	0.197	-1.085387	.2276342
	w1smoke#c.timew1w3						
1		.025375	.0628766	0.40	0.687	-.0981341	.1488842
	timew1w3	0 (omitted)					
1.w1currdrugs		.4050958	.3898652	1.04	0.301	-.3666075	1.176799
	w1currdrugs#c.timew1w3						
1		-.0262764	.0724042	-0.36	0.717	-.1682398	.115687
	timew1w3	0 (omitted)					
w1hei2010_total_scorecent43		.0219791	.0133952	1.64	0.107	-.0049184	.0488766
c.timew1w3#c.w1hei2010_total_scorecent43		-.0028688	.0025841	-1.11	0.267	-.0079367	.002199
	timew1w3	0 (omitted)					
w1BMIcent30		.0165181	.0205674	0.80	0.422	-.0238194	.0568556
c.timew1w3#c.w1BMIcent30		.0014146	.0038711	0.37	0.715	-.0061729	.0090022
	timew1w3	0 (omitted)					
w1SRH							
2		.0534997	.3795959	0.14	0.888	-.6905206	.7975199
3		.2354683	.4086819	0.58	0.565	-.5655777	1.036514
	w1SRH#c.timew1w3						
2		.0184994	.0732749	0.25	0.801	-.1251189	.1621178
3		-.0461682	.0784941	-0.59	0.556	-.2000156	.1076793
	timew1w3	0 (omitted)					
w1CEScent15							
timew1w3	0 (omitted)						
w1CEScent15		-.0344834	.0133081	-2.59	0.010	-.0605695	-.0083972
c.timew1w3#c.w1CEScent15		.0021522	.0025516	0.84	0.399	-.0028489	.0071533
	timew1w3	0 (omitted)					
w1dxHTN							
Yes		.3777423	.3189965	1.18	0.237	-.2483805	1.003865
w1dxHTN#c.timew1w3							
Yes		-.056838	.0624024	-0.91	0.362	-.1792031	.065527
	timew1w3	0 (omitted)					
w1dxDiabetes							
preDiabetes		-.0861387	.3636776	-0.24	0.813	-.7991495	.626872
Diabetes		-.0201667	.420775	-0.05	0.962	-.8449937	.8046603
w1dxDiabetes#c.timew1w3							
preDiabetes		.021804	.072052	0.30	0.762	-.1194568	.1630648
Diabetes		.0832989	.0860367	0.97	0.333	-.0854862	.252084
	timew1w3	0 (omitted)					

w1CVhighChol							
Yes	.1276325	.3689278	0.35	0.730	-.6091465	.8644115	
w1CVhighChol#c.timew1w3							
Yes	.0448025	.0736846	0.61	0.544	-.10068	.190285	
timew1w3							
1.w1cvdbr	.2431942	.3714733	0 (omitted)	0.65	0.513	-.4855878	.9719762
w1cvdbr#c.timew1w3							
1	-.0320247	.076427	-0.42	0.675	-.1819418	.1178923	
timew1w3							
invmillsmms	.0095314	.0088829	0 (omitted)	1.07	0.283	-.0078789	.0269416
c.timew1w3#c.invmillsmms	-.0014826	.0015784	-0.94	0.348	-.0045761	.001611	
timew1w3							
zw1w3HCYTRAJ	-.0175973	.1583169	0 (omitted)	-0.11	0.911	-.3279013	.2927067
c.timew1w3#c.zw1w3HCYTRAJ	-.0445331	.0293941	-1.52	0.130	-.1021447	.0130786	
w1B12center522	.0008392	.0006066	1.38	0.167	-.0003498	.0020282	
c.timew1w3#c.w1B12center522	-5.50e-06	.0001199	-0.05	0.963	-.0002405	.0002295	
c.zw1w3HCYTRAJ#c.w1B12center522	.000035	.0007719	0.05	0.964	-.0014786	.0015486	
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000891	.0001429	-0.62	0.533	-.0003692	.000191	
_cons	19.13311	.6952313	27.52	0.000	17.77036	20.49586	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1093082	.1907993	.0035716	3.345351
sd(_cons)	3.863237	.0992593	3.67351	4.062763
sd(Residual)	3.014629	.0947937	2.834445	3.206267

231 .
232 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,686

Group variable: HNDID

	Number of groups =	1,412
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0658
	Largest FMI =	0.4434
DF adjustment:	Large sample	DF: min = 24.94
		avg = 142,697.70
		max = 1891315.73
Model F test:	Equal FMI	F(47,41071.4) = 10.56
		Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	.0108737	.0526852	0.21	0.836	-.0923879 .1141353
	w1Agecent48	-.0066206	.006355	-1.04	0.298	-.0190776 .0058364
	c.timew1w3#c.w1Agecent48	-.0037441	.0012568	-2.98	0.003	-.0062075 -.0012807
	timew1w3	0	(omitted)			
	Sex					
	Men	.1984173	.1112358	1.78	0.074	-.0196091 .4164436
	Sex#c.timew1w3					
	Men	-.0393613	.0218346	-1.80	0.071	-.0821572 .0034347
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.3175857	.1150068	-2.76	0.006	-.5430664 -.092105
	Race#c.timew1w3					
	AfrAm	-.01021	.0224739	-0.45	0.650	-.0542582 .0338383
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1068223	.1151363	-0.93	0.354	-.3324925 .1188479
	PovStat#c.timew1w3					
	Below	-.018374	.022293	-0.82	0.410	-.0620678 .0253198
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.0989651	.2242045	-0.44	0.659	-.538405 .3404747
	3	.1824786	.2444779	0.75	0.455	-.2967154 .6616726
	w1edubr#c.timew1w3					
	2	-.0027058	.0428638	-0.06	0.950	-.0867176 .0813059
	3	-.0222883	.0470263	-0.47	0.636	-.1144594 .0698829
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.1117031	.0076935	14.52	0.000	.0966223 .1267839
	c.timew1w3#c.w1WRATtotalcent42	.0001421	.0015049	0.09	0.925	-.0028076 .0030917
	timew1w3	0	(omitted)			
	1.w1smoke	.1769871	.1283938	1.38	0.172	-.0786506 .4326248

w1smoke#c.timew1w3							
1	-.0113553	.0249065	-0.46	0.649	-.0602607	.03755	
timew1w3	0	(omitted)					
1.w1currdrugs	.3701129	.1771741	2.09	0.047	.0051692	.7350566	
w1currdrugs#c.timew1w3							
1	-.0037908	.0304536	-0.12	0.901	-.0637478	.0561663	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0003358	.004831	0.07	0.945	-.0091994	.0098711	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0002621	.0011081	0.24	0.813	-.0019315	.0024556	
timew1w3	0	(omitted)					
w1BMIcon30	-.0079149	.008038	-0.98	0.325	-.0236831	.0078533	
c.timew1w3#c.w1BMIcon30							
	-.0017657	.0015551	-1.14	0.256	-.0048142	.0012829	
timew1w3	0	(omitted)					
w1SRH							
2	-.0030667	.1474634	-0.02	0.983	-.2920922	.2859587	
3	.0473187	.1595613	0.30	0.767	-.265466	.3601034	
w1SRH#c.timew1w3							
2	.0234446	.0293443	0.80	0.424	-.0340693	.0809584	
3	.0155249	.031715	0.49	0.624	-.0466404	.0776902	
timew1w3	0	(omitted)					
w1CEScent15							
timew1w3	-.0030617	.0051901	-0.59	0.555	-.0132358	.0071123	
c.timew1w3#c.w1CEScent15							
	-.000103	.0010302	-0.10	0.920	-.0021225	.0019166	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.0474855	.1217715	0.39	0.697	-.1912165	.2861874	
w1dxHTN#c.timew1w3							
Yes	.0014199	.0249574	0.06	0.955	-.0475142	.0503539	
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes	-.129172	.1414924	-0.91	0.361	-.4065807	.1482367	
Diabetes	-.1330007	.1707849	-0.78	0.436	-.4685029	.2025015	
w1dxDiabetes#c.timew1w3							
preDiabetes	.0334245	.0283551	1.18	0.238	-.0221527	.0890017	
Diabetes	.0119501	.0350573	0.34	0.733	-.0568659	.0807661	
timew1w3	0	(omitted)					
w1CVhighChol							
Yes	-.0766685	.1370618	-0.56	0.577	-.3477436	.1944067	
w1CVhighChol#c.timew1w3							
Yes	.0086223	.0281693	0.31	0.760	-.0467269	.0639716	
timew1w3	0	(omitted)					
1.w1cvdbr	-.1205412	.1462615	-0.82	0.410	-.4075781	.1664956	

w1cvdbr#c.timew1w3 1	-.002895	.0301592	-0.10	0.924	-.0620185	.0562285
timew1w3 invmillsmms	0 (omitted) .0056918	.0034324	1.66	0.097	-.0010356	.0124193
c.timew1w3#c.invmillsmms	-.0005018	.0006199	-0.81	0.418	-.0017168	.0007131
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0067321	.0618427	-0.11	0.913	-.127959	.1144948
c.timew1w3#c.zw1w3HCYTRAJ	-.0172682	.0118226	-1.46	0.144	-.0404408	.0059044
w1B12center522	.0002101	.000247	0.85	0.395	-.0002752	.0006955
c.timew1w3#c.w1B12center522	-.0000293	.000048	-0.61	0.541	-.0001234	.0000647
c.zw1w3HCYTRAJ#c.w1B12center522	.0000322	.0002993	0.11	0.914	-.0005546	.0006191
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000226	.0000578	-0.39	0.696	-.0001358	.0000907
_cons	7.266234	.2726728	26.65	0.000	6.73168	7.800787

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0890397	.0361517	.040177	.1973286
sd(_cons)	1.512925	.0394243	1.437593	1.592205
sd(Residual)	1.154652	.0374997	1.083444	1.23054

233 .
234 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,673

Group variable: HNDID

Number of groups	=	1,413
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI = .
Largest FMI = .

DF adjustment: Large sample

DF:	min	=	0.00
	avg	=	.
	max	=	.

Model F test: Equal FMI

F(47, 36137.3)	=	14.97
Prob > F	=	0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0307807	.0551593	-0.56	0.577	-.1389271 .0773658
w1Agecent48		-.0155051	.0061421	-2.52	0.012	-.0275464 -.0034638
c.timew1w3#c.w1Agecent48		-.0016539	.0012945	-1.28	0.201	-.0041911 .0008833
	timew1w3	0	(omitted)			
Sex						
Men		-.0738502	.1068226	-0.69	0.489	-.2832214 .1355209
Sex#c.timew1w3						
Men		-.0244983	.0225443	-1.09	0.277	-.0686846 .019688
	timew1w3	0	(omitted)			
Race						
AfrAm		-.5949802	.1087125	-5.47	0.000	-.8080536 -.3819067
Race#c.timew1w3						
AfrAm		-.020516	.0231682	-0.89	0.376	-.0659249 .0248929
	timew1w3	0	(omitted)			
PovStat						
Below		-.0952056	.1108494	-0.86	0.390	-.3124801 .1220689
PovStat#c.timew1w3						
Below		-.0014644	.0230383	-0.06	0.949	-.0466195 .0436906
	timew1w3	0	(omitted)			
w1edubr						
2		-.2035747	.2153047	-0.95	0.344	-.6255705 .218421
3		.1299958	.2347633	0.55	0.580	-.3301416 .5901333
w1edubr#c.timew1w3						
2		.0545823	.0442145	1.23	0.217	-.032077 .1412417
3		.0269962	.0484405	0.56	0.577	-.0679456 .121938
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.1220499	.0073635	16.57	0.000	.1076175 .1364823
c.timew1w3#c.w1WRATtotalcent42		-.0018443	.0015632	-1.18	0.238	-.0049082 .0012197
	timew1w3	0	(omitted)			
1.w1smoke		-.0199405	.125274	-0.16	0.874	-.2691971 .2293161
w1smoke#c.timew1w3						
1		.0042031	.0278478	0.15	0.880	-.0511413 .0595475
	timew1w3	0	(omitted)			
1.w1currdrugs		.1269667	.1459465	0.87	0.386	-.161119 .4150523
w1currdrugs#c.timew1w3						
1		.0256993	.0305774	0.84	0.401	-.0343271 .0857258
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		-.0020842	.0051543	-0.40	0.688	-.0124251 .0082566
c.timew1w3#c.w1hei2010_total_scorecent43		.0012272	.0011863	1.03	0.305	-.0011406 .0035949

	timew1w3	0	(omitted)				
w1BMIcent30		-.0018602	.0076831	-0.24	0.809	-.0169253	.0132048
c.timew1w3#c.w1BMIcent30		-.0030128	.001613	-1.87	0.062	-.0061751	.0001495
	timew1w3	0	(omitted)				
w1SRH							
2		-.0013386	.1429929	-0.01	0.993	-.2816439	.2789667
3		.1221294	.1577099	0.77	0.439	-.1874683	.4317271
w1SRH#c.timew1w3							
2		-.0226585	.0302619	-0.75	0.454	-.0819717	.0366547
3		-.0269402	.0327696	-0.82	0.411	-.0911757	.0372952
	timew1w3	0	(omitted)				
w1CEScent15		-.0038997	.0049498	-0.79	0.431	-.0136014	.0058019
c.timew1w3#c.w1CEScent15		-.0008873	.0010532	-0.84	0.399	-.0029516	.0011769
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0668953	.1187902	-0.56	0.573	-.2998396	.166049
w1dxHTN#c.timew1w3							
Yes		.0094762	.0256635	0.37	0.712	-.0408344	.0597868
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2390471	.1354882	1.76	0.078	-.0265209	.504615
Diabetes		-.1225017	.1729187	-0.71	0.480	-.4643406	.2193373
w1dxDiabetes#c.timew1w3							
preDiabetes		.004827	.0293229	0.16	0.869	-.0526475	.0623015
Diabetes		-.0115125	.035845	-0.32	0.748	-.081825	.0588
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0339953	.1294335	-0.26	0.793	-.2885451	.2205545
w1CVhighChol#c.timew1w3							
Yes		.0237934	.0305417	0.78	0.437	-.0365871	.0841738
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0101051	.1925073	-0.05	0.959	-.4165185	.3963082
w1cvdbr#c.timew1w3							
1		.0275235	.0349435	0.79	0.433	-.0420634	.0971103
	timew1w3	0	(omitted)				
invmillsmms		.0051141	.0032914	1.55	0.120	-.001337	.0115651
c.timew1w3#c.invmillsmms		-.000417	.0006388	-0.65	0.514	-.001669	.000835
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0024642	.0593166	-0.04	0.967	-.118725	.1137966
c.timew1w3#c.zw1w3HCYTRAJ		-.0049601	.0121844	-0.41	0.684	-.0288413	.0189211

w1B12center522	.0004555	.000233	1.95	0.051	-1.34e-06	.0009123
c.timew1w3#c.w1B12center522	-.0000479	.0000498	-0.96	0.337	-.0001456	.0000498
c.zw1w3HCYTRAJ#c.w1B12center522	.0001697	.0002883	0.59	0.556	-.0003953	.0007347
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	-.0000554	.0000589	-0.94	0.347	-.0001709	.0000601
_cons	5.979249	.265254	22.54	0.000	5.458959	6.499539

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	7.28e-07	.	.	.
sd(_cons)	1.339651	.0390802	1.265203	1.418479
sd(Residual)	1.234856	.024741	1.187304	1.284312

235 .

236 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
 > if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,736
Group variable: HNDID	Number of groups	= 1,414
	Obs per group:	
	min	= 1
	avg	= 1.9
	max	= 2
DF adjustment: Large sample	Average RVI	= 0.0497
	Largest FMI	= 0.2698
	DF: min	= 65.16
	avg	= 831,304.96
	max	= 1.89e+07
Model F test: Equal FMI	F(47,69382.1)	= 5.24
	Prob > F	= 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0613256	.0424787	-1.44	0.149	-.144611	.0219598
w1Agecent48	-.003558	.0037791	-0.94	0.346	-.010965	.0038489
c.timew1w3#c.w1Agecent48	-.0013439	.0009955	-1.35	0.177	-.0032951	.0006074
timew1w3	0 (omitted)					
Sex						
Men	.0850673	.0661924	1.29	0.199	-.0446676	.2148023
Sex#c.timew1w3						
Men	.0112333	.0173062	0.65	0.516	-.0226866	.0451531
timew1w3	0 (omitted)					
Race						

AfrAm		- .3365739	.0676564	-4.97	0.000	- .4691781	- .2039698
Race#c.timew1w3							
AfrAm		.0224491	.0178364	1.26	0.208	- .0125099	.0574082
timew1w3			0 (omitted)				
PovStat							
Below		.0804684	.068921	1.17	0.243	- .0546148	.2155516
PovStat#c.timew1w3							
Below		-.0037541	.0176609	-0.21	0.832	- .0383689	.0308607
timew1w3			0 (omitted)				
w1edubr							
2		-.0280983	.1371077	-0.20	0.838	- .2969149	.2407184
3		.1635698	.1490833	1.10	0.273	- .1286994	.455839
w1edubr#c.timew1w3							
2		.0456926	.0345364	1.32	0.186	- .0220069	.1133921
3		.0557486	.0378686	1.47	0.141	- .0184833	.1299805
timew1w3		0 (omitted)					
w1WRATtotalcent42		.02706	.004633	5.84	0.000	.0179782	.0361418
c.timew1w3#c.w1WRATtotalcent42							
timew1w3		0 (omitted)					
1.w1smoke		-.0321667	.0756429	-0.43	0.671	- .1810709	.1167375
w1smoke#c.timew1w3							
1		.010878	.0199894	0.54	0.587	- .0284436	.0501995
timew1w3		0 (omitted)					
1.w1currdrugs		.3217688	.0951308	3.38	0.001	.1333964	.5101412
w1currdrugs#c.timew1w3							
1		-.061103	.0227352	-2.69	0.007	- .1056736	- .0165323
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0028663	.0030626	0.94	0.350	- .0031609	.0088934
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3		0 (omitted)					
w1BMIcent30		-.0053152	.0047556	-1.12	0.264	- .0146373	.0040068
c.timew1w3#c.w1BMIcent30							
timew1w3		0 (omitted)					
w1SRH							
2		.1496851	.0884242	1.69	0.090	- .0236244	.3229946
3		-.022311	.0952025	-0.23	0.815	- .208907	.1642851
w1SRH#c.timew1w3							
2		.0058917	.0231871	0.25	0.799	- .0395544	.0513379
3		.0172622	.0248926	0.69	0.488	- .0315281	.0660525
timew1w3		0 (omitted)					
w1CEScent15		-.007387	.0031067	-2.38	0.017	- .0134763	- .0012978

c.timew1w3#c.w1CEScent15	.0007681	.0008119	0.95	0.344	-.0008234	.0023596
timew1w3	0 (omitted)					
w1dxHTN						
Yes	.0735315	.0754984	0.97	0.330	-.0746073	.2216703
w1dxHTN#c.timew1w3						
Yes	-.0385684	.0196273	-1.97	0.049	-.077048	-.0000889
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	-.0645482	.0858683	-0.75	0.452	-.232913	.1038167
Diabetes	.0470037	.1114747	0.42	0.674	-.1745155	.2685229
w1dxDiabetes#c.timew1w3						
preDiabetes	.0188386	.0224949	0.84	0.402	-.0252573	.0629344
Diabetes	-.0442152	.0276896	-1.60	0.111	-.0985937	.0101633
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	-.0526178	.0900323	-0.58	0.561	-.2324166	.127181
w1CVhighChol#c.timew1w3						
Yes	.0068553	.0223784	0.31	0.760	-.0371442	.0508548
timew1w3	0 (omitted)					
1.w1cvdbr	-.0865399	.092217	-0.94	0.348	-.2676785	.0945987
w1cvdbr#c.timew1w3						
1	.0011503	.0258467	0.04	0.965	-.0499718	.0522724
timew1w3	0 (omitted)					
invmillsmms	.0009803	.0020754	0.47	0.637	-.0030875	.005048
c.timew1w3#c.invmillsmms						
	-.0002898	.0004972	-0.58	0.560	-.0012644	.0006847
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0288575	.037137	-0.78	0.437	-.1016481	.0439331
c.timew1w3#c.zw1w3HCYTRAJ						
	-.0082688	.0092235	-0.90	0.370	-.0263466	.009809
w1B12center522						
	-.0001131	.0001426	-0.79	0.428	-.0003927	.0001665
c.timew1w3#c.w1B12center522						
	5.81e-06	.0000381	0.15	0.879	-.0000689	.0000806
c.zw1w3HCYTRAJ#c.w1B12center522						
	.0001507	.0001845	0.82	0.414	-.0002109	.0005123
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522						
	-.0000233	.0000453	-0.51	0.607	-.000112	.0000654
_cons	8.778026	.1649831	53.21	0.000	8.454586	9.101466

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.035392	.0403122	.0037963	.3299494
sd(_cons)	.617443	.0307476	.5600263	.6807464
sd(Residual)	.962702	.0246245	.9156285	1.012196

237 .
238 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 2,670

Group variable: HNDID

Number of groups = 1,397
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI = 0.0450
Largest FMI = 0.3129

DF adjustment: Large sample

DF: min = 49.10
avg = 1.44e+07
max = 3.63e+08

Model F test: Equal FMI

F(47, 83552.6) = 10.94
Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0090387	.0111638	0.81	0.418	-.012843	.0309203
w1Agecent48	.0112364	.0011604	9.68	0.000	.008962	.0135107
c.timew1w3##c.w1Agecent48	.000409	.0002604	1.57	0.116	-.0001014	.0009193
timew1w3	0	(omitted)				
Sex						
Men	.0948723	.0203657	4.66	0.000	.0549561	.1347884
Sex#c.timew1w3						
Men	.0019424	.0045417	0.43	0.669	-.0069592	.010844
timew1w3	0	(omitted)				
Race						
AfrAm	.1617567	.0208344	7.76	0.000	.1209218	.2025915
Race#c.timew1w3						
AfrAm	-.0019998	.0046874	-0.43	0.670	-.011187	.0071874
timew1w3	0	(omitted)				
PovStat						
Below	.0465754	.0211923	2.20	0.028	.0050392	.0881116
PovStat#c.timew1w3						

	Below	.0004785	.0046371	0.10	0.918	-.00861	.009567
	timew1w3	0 (omitted)					
	w1edubr						
	2	-.0607535	.0424125	-1.43	0.152	-.1439129	.0224058
	3	-.0427351	.0462399	-0.92	0.355	-.133415	.0479448
	w1edubr#c.timew1w3						
	2	-.0064757	.0091306	-0.71	0.478	-.0243738	.0114224
	3	-.0100901	.0100087	-1.01	0.313	-.0297105	.0095304
	timew1w3	0 (omitted)					
	w1WRATtotalcent42	-.0074895	.0014336	-5.22	0.000	-.0102995	-.0046796
	c.timew1w3#c.w1WRATtotalcent42	-.0004261	.0003184	-1.34	0.181	-.0010501	.0001979
	timew1w3	0 (omitted)					
	1.w1smoke	-.001137	.0234285	-0.05	0.961	-.047441	.045167
	w1smoke#c.timew1w3						
	1	.0021414	.0050827	0.42	0.674	-.0078234	.0121062
	timew1w3	0 (omitted)					
	1.w1currdrugs	.0415028	.0274004	1.51	0.131	-.0123913	.0953969
	w1currdrugs#c.timew1w3						
	1	-.0053325	.0061566	-0.87	0.387	-.0174177	.0067526
	timew1w3	0 (omitted)					
	w1hei2010_total_scorecent43	.0001004	.0010038	0.10	0.921	-.0019149	.0021156
	c.timew1w3#c.w1hei2010_total_scorecent43	.0001219	.0002274	0.54	0.593	-.000327	.0005707
	timew1w3	0 (omitted)					
	w1BMIcent30	.0020161	.0014696	1.37	0.170	-.0008654	.0048976
	c.timew1w3#c.w1BMIcent30	-.0004254	.00032	-1.33	0.184	-.0010525	.0002018
	timew1w3	0 (omitted)					
	w1SRH						
	2	-.0809026	.0272892	-2.96	0.003	-.1343886	-.0274167
	3	-.0567539	.0293527	-1.93	0.053	-.1142847	.0007768
	w1SRH#c.timew1w3						
	2	.0010065	.0061615	0.16	0.870	-.0110699	.0130829
	3	-.0024349	.0066027	-0.37	0.712	-.0153761	.0105063
	timew1w3	0 (omitted)					
	w1CEScent15						
	timew1w3	.0017135	.0009545	1.80	0.073	-.0001572	.0035843
	c.timew1w3#c.w1CEScent15	.0003431	.0002128	1.61	0.107	-.000074	.0007602
	timew1w3	0 (omitted)					
	w1dxHTN						
	Yes	-.0104456	.0234249	-0.45	0.656	-.0564787	.0355874
	w1dxHTN#c.timew1w3						
	Yes	.0044784	.005191	0.86	0.388	-.005699	.0146558
	timew1w3	0 (omitted)					

w1dxDiabetes preDiabetes Diabetes	.0181006 .0320383	.0266198 .033585	0.68 0.95	0.497 0.342	-.0341209 -.0344787	.0703221 .0985552
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.003191 -.0021495	.0059074 .0070672	0.54 -0.30	0.589 0.761	-.0083877 -.016001	.0147697 .011702
timew1w3		0 (omitted)				
w1CVhighChol Yes	-.0281027	.0278919	-1.01	0.319	-.0841508	.0279454
w1CVhighChol#c.timew1w3 Yes	.0065378	.0058583	1.12	0.265	-.0049679	.0180435
timew1w3 1.w1cvdbr	.0147728	.0278545	0.53	0.596	-.0399509	.0694966
w1cvdbr#c.timew1w3 1	.0038085	.0066437	0.57	0.567	-.0092849	.0169019
timew1w3 invmillsmms	.0002467	.0006252	0.39	0.693	-.0009786	.0014721
c.timew1w3#c.invmillsmms	-.0001396	.0001282	-1.09	0.276	-.0003908	.0001116
timew1w3 zw1w3HCYTRAJ	.0272462	.011563	2.36	0.018	.0045825	.0499099
c.timew1w3#c.zw1w3HCYTRAJ	-.0007709	.0024675	-0.31	0.755	-.0056072	.0040654
w1B12center522	.0000191	.0000441	0.43	0.666	-.0000675	.0001056
c.timew1w3#c.w1B12center522	.0000107	.0000101	1.06	0.288	-9.06e-06	.0000305
c.zw1w3HCYTRAJ#c.w1B12center522	-.0000219	.0000564	-0.39	0.697	-.0001324	.0000885
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522	6.50e-06	.000012	0.54	0.590	-.0000171	.0000301
_cons	3.408883	.0515475	66.13	0.000	3.307776	3.50999

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0206923	.0064292	.0112548 .0380437
sd(_cons)	.2507069	.0077675	.2359358 .2664027
sd(Residual)	.2383468	.0076132	.2238827 .2537454

239 .

```
240 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##c.w1B12center522 ///
> if sample4kobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,578

Number of groups = 1,383
Obs per group:

- min = 1
- avg = 1.9
- max = 2

Average RVI = 0.0513
Largest FMI = 0.2435
DF: min = 79.24
avg = 4.76e+09
max = 2.43e+11

F(47, 70053.4) = 17.94
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.013657	.0171559	0.80	0.426	-.199932	.0473071
w1Agecent48	.0155144	.001833	8.46	0.000	.0119217	.0191071
c.timew1w3##c.w1Agecent48	.0006784	.0003866	1.75	0.079	-.0000793	.001436
timew1w3	0	(omitted)				
Sex						
Men	.0681808	.0323418	2.11	0.035	.0047893	.1315723
Sex##c.timew1w3						
Men	-.0034762	.0067752	-0.51	0.608	-.0167562	.0098037
timew1w3	0	(omitted)				
Race						
AfrAm	.3296235	.0330261	9.98	0.000	.2648925	.3943544
Race##c.timew1w3						
AfrAm	-.0009328	.0070319	-0.13	0.894	-.0147151	.0128495
timew1w3	0	(omitted)				
PovStat						
Below	.1001547	.0335838	2.98	0.003	.0343309	.1659784
PovStat##c.timew1w3						
Below	.0002825	.006957	0.04	0.968	-.0133534	.0139184
timew1w3	0	(omitted)				
w1edubr						
2	-.1147014	.0662413	-1.73	0.083	-.2445363	.0151335
3	-.2023493	.0715593	-2.83	0.005	-.3426031	-.0620955
w1edubr##c.timew1w3						
2	-.006383	.0138938	-0.46	0.646	-.0336199	.0208539

	3		-.0066778	.015055	-0.44	0.657	-.0361895	.0228338
	timew1w3		0	(omitted)				
	w1WRATtotalcent42		-.0244297	.0022976	-10.63	0.000	-.0289333	-.0199261
c.timew1w3#c.w1WRATtotalcent42			-.000278	.0004952	-0.56	0.575	-.0012487	.0006927
	timew1w3		0	(omitted)				
	1.w1smoke		-.0076356	.0380555	-0.20	0.841	-.0833796	.0681085
	w1smoke#c.timew1w3							
	1		.0071318	.0082104	0.87	0.386	-.0090913	.0233549
	timew1w3		0	(omitted)				
	1.w1currdrugs		-.0331355	.0458208	-0.72	0.472	-.1242639	.0579928
	w1currdrugs#c.timew1w3							
	1		-.0030167	.0096461	-0.31	0.755	-.0220632	.0160298
	timew1w3		0	(omitted)				
	w1hei2010_total_scorecent43		.0008135	.0014665	0.55	0.580	-.00209	.003717
c.timew1w3#c.w1hei2010_total_scorecent43			-.0001294	.0003584	-0.36	0.719	-.0008426	.0005838
	timew1w3		0	(omitted)				
	w1BMIcent30		-.0006424	.0022861	-0.28	0.779	-.0051232	.0038383
c.timew1w3#c.w1BMIcent30			-.000491	.0004792	-1.02	0.306	-.0014303	.0004483
	timew1w3		0	(omitted)				
	w1SRH							
	2		-.1352192	.0435595	-3.10	0.002	-.2206061	-.0498323
	3		-.0743909	.0469875	-1.58	0.113	-.1665092	.0177273
	w1SRH#c.timew1w3							
	2		.0029464	.0093487	0.32	0.753	-.0153779	.0212707
	3		-.0018474	.0101584	-0.18	0.856	-.0217642	.0180693
	timew1w3		0	(omitted)				
	w1CEScent15		0	(omitted)				
	timew1w3		.0071844	.0015582	4.61	0.000	.0041257	.0102432
c.timew1w3#c.w1CEScent15			-.0000587	.0003222	-0.18	0.855	-.0006904	.0005729
	timew1w3		0	(omitted)				
	w1dxHTN							
	Yes		.0297541	.0361255	0.82	0.410	-.0411006	.1006089
	w1dxHTN#c.timew1w3							
	Yes		-.004896	.0076402	-0.64	0.522	-.0198707	.0100786
	timew1w3		0	(omitted)				
	w1dxDiabetes							
	preDiabetes		.0797573	.0416974	1.91	0.056	-.0020082	.1615227
	Diabetes		.1071762	.0506196	2.12	0.035	.0076192	.2067331
	w1dxDiabetes#c.timew1w3							
	preDiabetes		-.0121244	.0087784	-1.38	0.167	-.0293298	.0050811
	Diabetes		-.0014459	.0108804	-0.13	0.894	-.0227816	.0198898
	timew1w3		0	(omitted)				

w1CVhighChol							
Yes		-.0090065	.03932	-0.23	0.819	-.0863898	.0683767
w1CVhighChol#c.timew1w3							
Yes		-.0018473	.0084353	-0.22	0.827	-.0183803	.0146857
timew1w3							
1.w1cvdbr		0 (omitted)	-.0607283	.0427739	-1.42	0.156	-.1446264
w1cvdbr#c.timew1w3							
1		.016878	.0093313	1.81	0.071	-.0014169	.0351728
timew1w3							
invmillsmms		0 (omitted)	-.002645	.0009897	-2.67	0.008	-.0045849
c.timew1w3#c.invmillsmms							
		-.0002663	.0004767	-0.56	0.576	-.0012007	.000668
timew1w3							
zw1w3HCYTRAJ		0 (omitted)	.0098199	.0182754	0.54	0.591	-.0259999
c.timew1w3#c.zw1w3HCYTRAJ							
		.0087119	.0036522	2.39	0.017	.0015532	.0158705
w1B12center522							
		.0000579	.0000698	0.83	0.407	-.0000789	.0001948
c.timew1w3#c.w1B12center522							
		5.87e-06	.000015	0.39	0.695	-.0000234	.0000352
c.zw1w3HCYTRAJ#c.w1B12center522							
		-.0000447	.0000882	-0.51	0.612	-.0002177	.0001282
c.timew1w3#c.zw1w3HCYTRAJ#c.w1B12center522							
		.0000183	.000018	1.01	0.310	-.000017	.0000536
_cons		4.550324	.0809671	56.20	0.000	4.391565	4.709083

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	2.74e-06	.0007412	5.8e-237	1.3e+225
sd(_cons)	.4125396	.012362	.3890082	.4374944
sd(Residual)	.3590469	.0076422	.3443766	.3743421

```

241 .
242 .
243 . save, replace
      file finaldata_imputed_FINAL.dta saved

244 .
245 .
246 . capture log close

```